

Trim and Paint Training - Basics

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Safety First

- 🏠 Safety Glasses required at all time on build site.
- 🏠 Please remove gloves before using Miter Saw, Circular Saw, SawZall and Jig 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.
- 🏠 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



Trim & Paint Agenda

- 🏠 Safety
- 🏠 Organization and Leadership
- 🏠 Preparation and Process Steps
- 🏠 Trim examples and house plan differences
- 🏠 Trim carpentry and key points
- 🏠 Fascia review
- 🏠 Corner, Window and Top of wall Trim
- 🏠 Porch (side / back) trim
- 🏠 Front Porch Gable and Beam Trim
- 🏠 Front Door trim
- 🏠 Garage door trim
- 🏠 Trimming brick houses
- 🏠 Paint Prep
- 🏠 Paint

Organization and Leadership

- 🏠 Trim install requires a slightly different mindset than general construction
 - 🏠 Requires patience and accuracy
 - 🏠 Sequencing of tasks important
 - 🏠 Utilize P⁶ = **P**rior, **P**rudent, **P**lanning, **P**revents, **P**oor, **P**erformance
- 🏠 Essential to have core volunteer leadership with trim experience leading sponsor volunteers

Trim Preparation and Process

🏠 Prepare

- 🏠 Windows, Siding, Soffit and Ceilings should be installed first
- 🏠 If possible, paint the trim before installing it on the house
- 🏠 If possible, paint the siding prior to installing the trim on top of the siding
- 🏠 Typical areas that need trim:
 - 🏠 Over siding around windows
 - 🏠 Over siding around doors
 - 🏠 Over siding at corners (outside and inside corners)
 - 🏠 Over siding where it contacts soffits
 - 🏠 Over siding and beams around edges of ceilings
 - 🏠 Over brick walls (frieze)

House Trim (Examples)



Corner Boards



Window



Front Wall



Eaves



Porch Beam/Ceiling



Back Porch



Side Porch



Garage Siding



Front Porch / Post



Siding/Brick Frieze



Garage Brick



Porch/Brick



Bird Box

Floor Plan Differences

Plan	Truss Type	Brick	Front Porch (front wall)	Other Porches	Comments
Magnolia	Slope	No	Centered	Back	3 BR, 1 Car
Hawthorne	Flat	No	Centered	Back	4 BR, 2 Car
Trinity	Flat	Yes/No	Multiple Elevations	Side	3 BR, 1 Car
Pecan	Flat	Yes/No	Multiple Elevations	Side	4BR, 2 Car



Magnolia



Hawthorne



Trinity

Trim

🏠 Tools and Materials

Tools	Materials
Pencils (Sharp)	2 ½" Finish Nails for Air Gun
Tape Measure	Trim – 1x4, 1x6, beam, kick-out
Speed & Framing Squares	
Chisel	
Chalk Line	
Finish Nailer Air Gun (16 ga.)	
Miter Saw	
Jig Saw	
Circular Saw	
Compressor	
Air Hoses	

Carpentry Basics

Yes



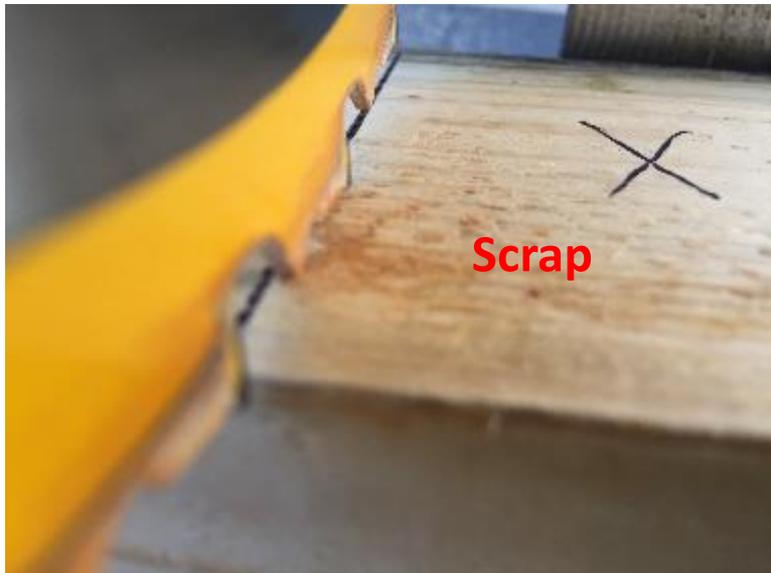
Avoid



Trim Carpentry Basics

🏠 Wood to saw blade alignment

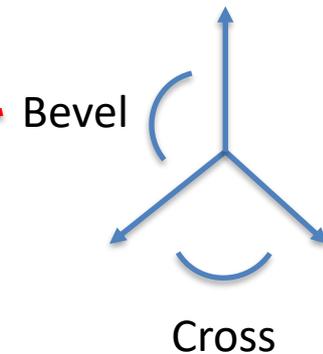
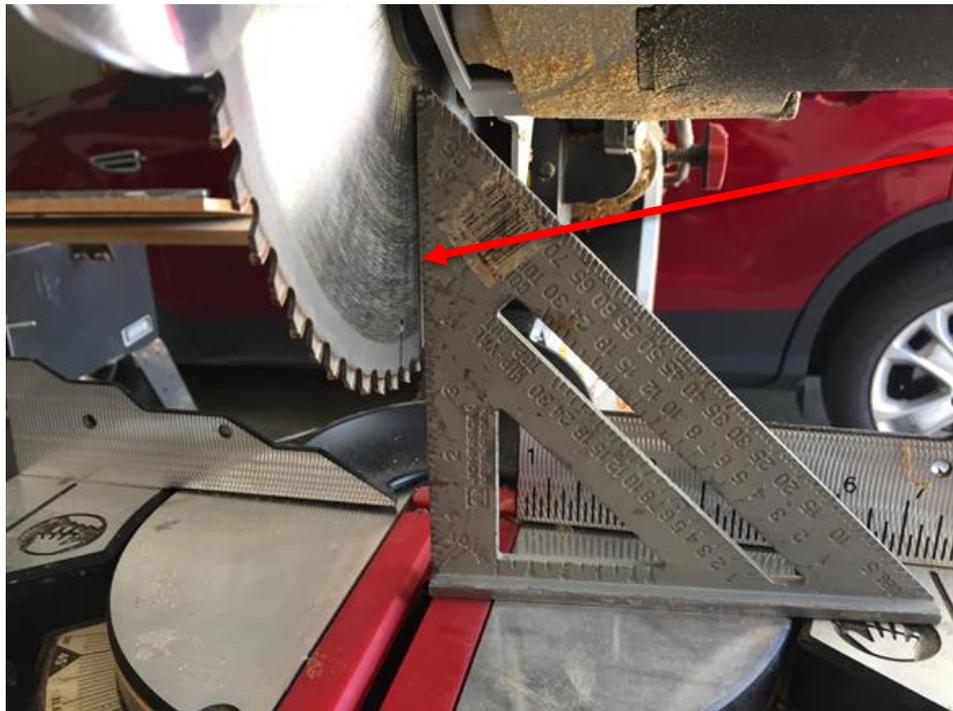
🏠 1/8" blade positioned over scrap part of cut



Trim Carpentry Basics

🏠 Miter Saw Alignment

🏠 Check cross cut and bevel for 90°

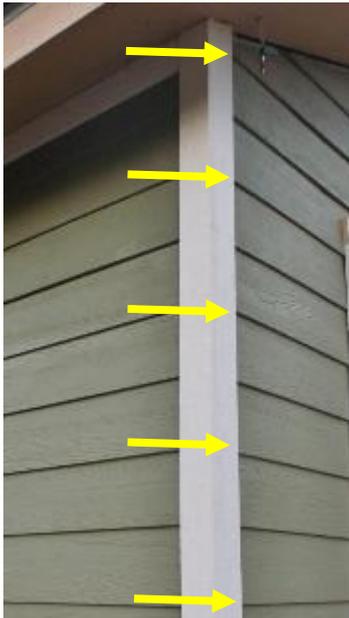


General Trim Key Points

- 🏠 Measure carefully – DAHFH does not have board stretchers
- 🏠 Mark piece to be cut with a sharp pencil
- 🏠 Cut trim using Miter Saw to create square or desired angle cuts
- 🏠 Minimize gaps between pieces of trim
 - 🏠 Prime and Caulk joints as you go
 - 🏠 Trim pieces should fit tightly
 - 🏠 Large caulk gaps eventually fail

General Trim Key Points (cont'd)

- 🏠 Install trim with 16 ga. finish nailer using 2 ½” nails
 - 🏠 When installing over siding vertically, nail trim every other piece of siding at the junction
 - 🏠 Other trim pieces every 12”



Fascia

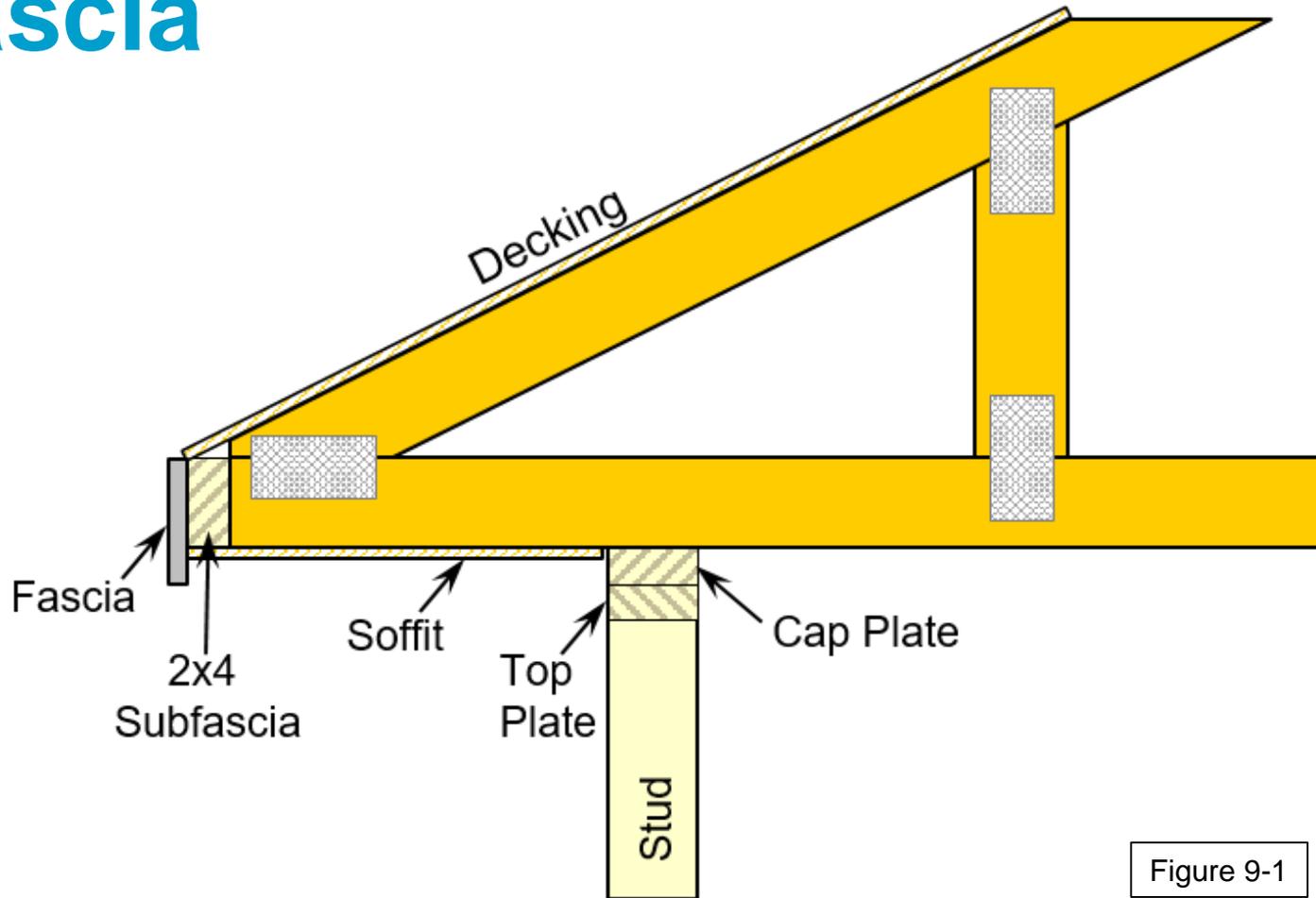


Figure 9-1

Kick Out Flashing

Kick Out Flashing: Install before fascia, on top of subfascia

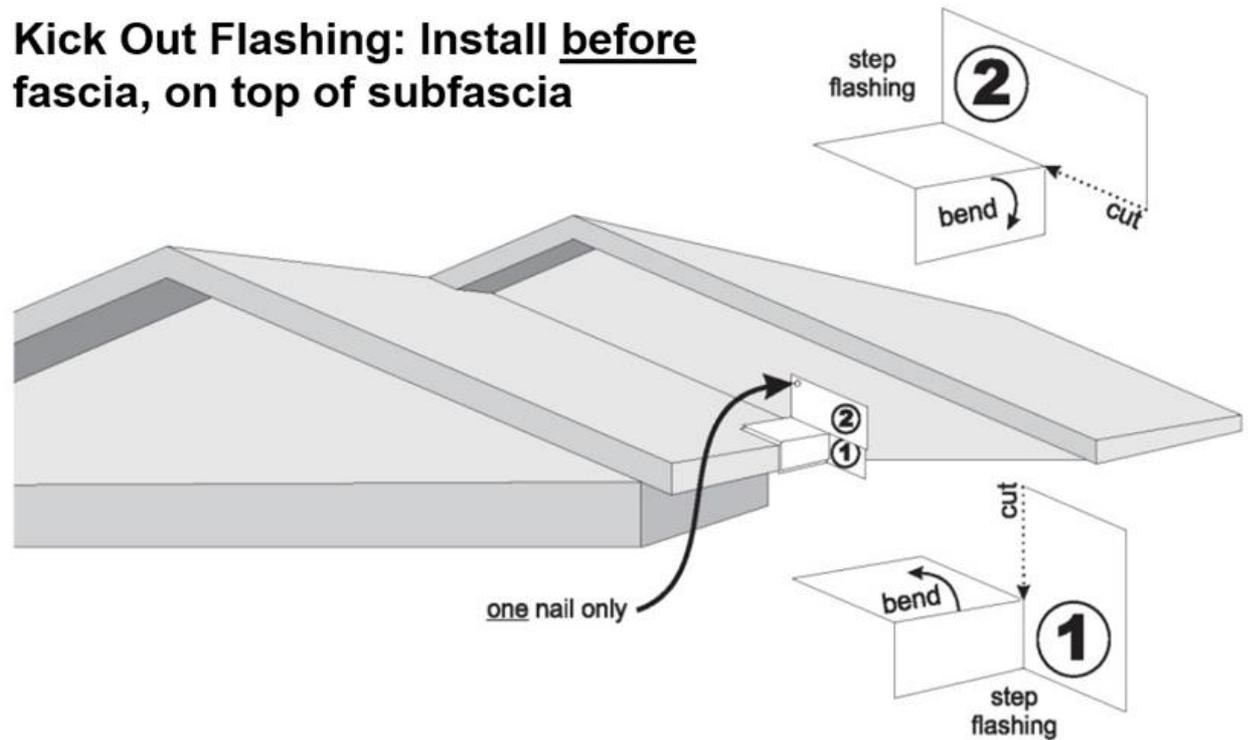


Figure 8-1

Kick Out Flashing



Fascia Basics

- 🏠 The ends are straight cut, not angled
- 🏠 Caulk the joints as the fascia is being installed
- 🏠 Make sure the fascia joint is not over a subfascia joint
- 🏠 No pieces shorter than 4 feet



Corner Trim

- 🏠 Preparation & Installation Process
 - 🏠 Install Trim around corners
 - 🏠 Measure Corner height from bottom of 1st row of siding to soffit - account for slope of gable soffit if needed (5:12 pitch = 22.5 degrees)
 - 🏠 Cut two pieces of 1"x4" trim and assemble them into a corner shape prior to mounting the pieces to the wall
 - 🏠 Small side of corner faces front or back of house
 - 🏠 Tip: For sloped eaves, assemble corner, cut 22.5° (5:12 pitch), place against soffit, measure bottom against siding



Corner Trim

🏠 Preparation & Installation Process

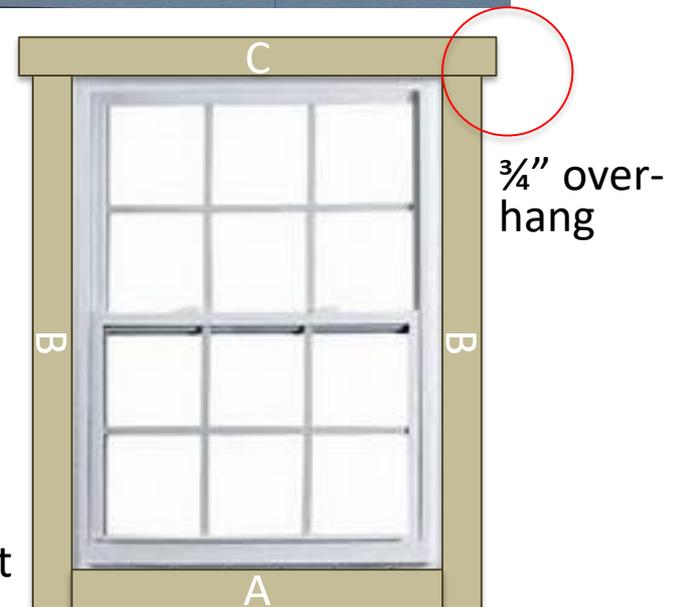
- 🏠 Install Trim around corners
 - 🏠 Install corners on top of siding and in contact with soffit
 - 🏠 Nail with 2 ½" finish nails using finish nail air gun
 - 🏠 Trim pieces should fit tightly to the soffit



Window Trim

- 🏠 Window Trim Preparation & Install over Siding
 - 🏠 Measure and cut 4 pieces of 1"x4" trim
 - 🏠 A= fits tightly between the two "B" pieces of trim
 - 🏠 B = window height + width of 1x4
 - 🏠 C = width of window + B's + $\frac{3}{4}$ " over hang each side
 - 🏠 Cut trim using Miter Saw to create square cuts
 - 🏠 Caulk and install pieces tightly to the window frame

Note: Some window frames have vinyl seams protruding at the corners which needs to be removed with a knife



Window Trim

- 🏠 Install Window Trim over siding (cont'd)
 - 🏠 Minimize gaps between pieces of trim
 - 🏠 Install with 2 ½” finish nails using finish nail air gun, space nails at 12” intervals on top and bottom pieces of trim
 - 🏠 Nails should be placed where the side trim pieces contact the bottom edges of the siding



Top of Wall Trim

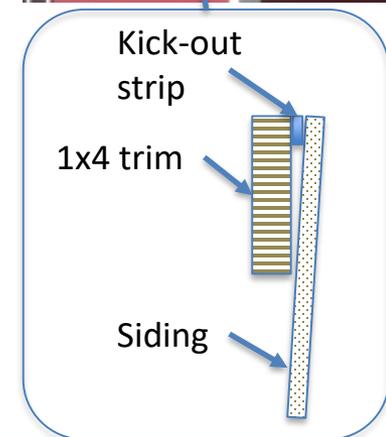
- 🏠 Trim locations
 - 🏠 Rakes, Eaves, Front / Side Porch
- 🏠 Install process (Rakes)
 - 🏠 Install 1"x4" trim on top of siding and in contact with soffit
 - 🏠 Install long 1x4 starting at the bottom with the remaining top piece not shorter than 4'
 - 🏠 Trim pieces should fit tightly to the soffit / ceiling
 - 🏠 Cut trim using Miter Saw to create square cuts for joints
 - 🏠 Minimize gaps between pieces of trim
 - 🏠 Install with 2 1/2" finish nails using finish nail air gun, space nails at 12" intervals on trim
 - 🏠 Rakes – nail at siding overlap



Top of Wall – Porch / Siding Frieze Trim

🏠 Installation Process

- 🏠 Install kick-out strip with finish nailer (positioned horizontally) on top of top row of siding
- 🏠 Install Trim over siding touching top of soffit
- 🏠 Install 1x4 trim from corner to corner



Back Porch Door Trim (Magnolia)

🏠 Preparation & Install process

- 🏠 Remove existing molding from door jam
- 🏠 Install 1x4 trim flat against ceiling edges
- 🏠 Install 1x4 on each side of door jam (bottom aligned to bottom of siding to ceiling flat 1x4) – ¼” reveal
 - 🏠 Note: siding and/or trim should be at least a ½” off of the slab
- 🏠 Install 1x4 between vertical door trim on top of door – ¼” reveal
- 🏠 Cut soffit material to fit inside area surrounded by door/ceiling trim
- 🏠 Install outside corner trim (calif. corner)
- 🏠 Install top 1x4 trim over corner trim overhanging by ¾” each side
- 🏠 Install 1x4 trim to back wall over siding

A

B

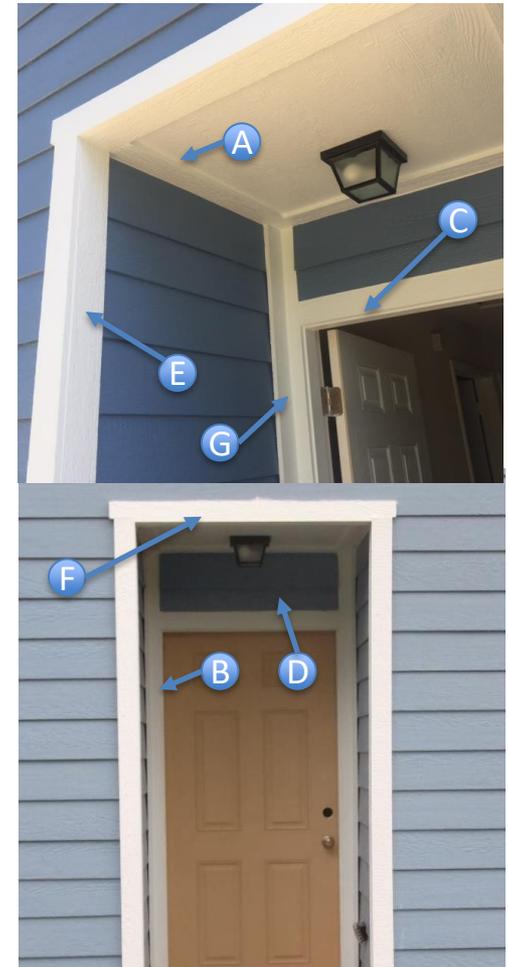
C

D

E

F

G



Back Porch Door Trim (Hawthorne)

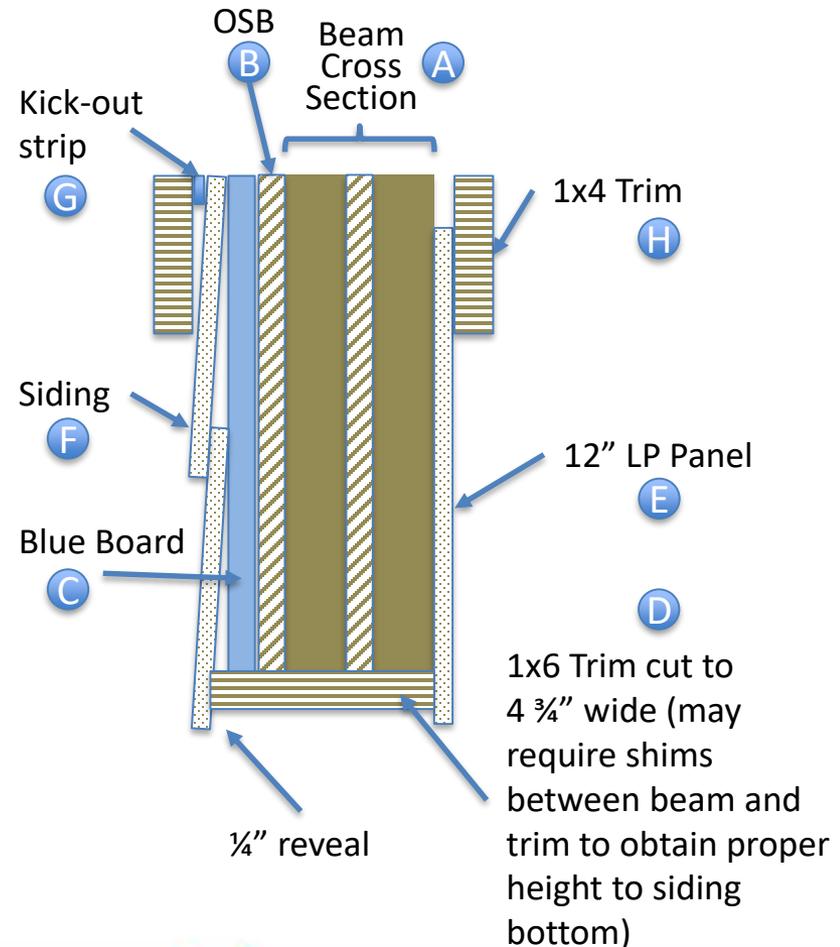
🏠 Install process

- 🏠 Remove existing molding from door jam
- 🏠 Install 1x4 trim flat against ceiling edges
- 🏠 Install 1x2 spacer on top of door jam sides and top
- 🏠 Install siding over and around door
- 🏠 Install 1x4 on each side of door jam (bottom aligned to bottom of siding to ceiling flat 1x4 – left, to jam top – right) - use $\frac{1}{4}$ " reveal
 - 🏠 Note: siding and/or trim should be at least a $\frac{1}{2}$ " off of the slab
- 🏠 Install 1x4 between vertical door trim on top of door – use $\frac{1}{4}$ " reveal
- 🏠 Install outside corner trim (calif. corner)
- 🏠 Install top horizontal 1x4 trim over corner trim overhanging by $\frac{3}{4}$ "
- 🏠 Install 1x4 trim to back wall over siding



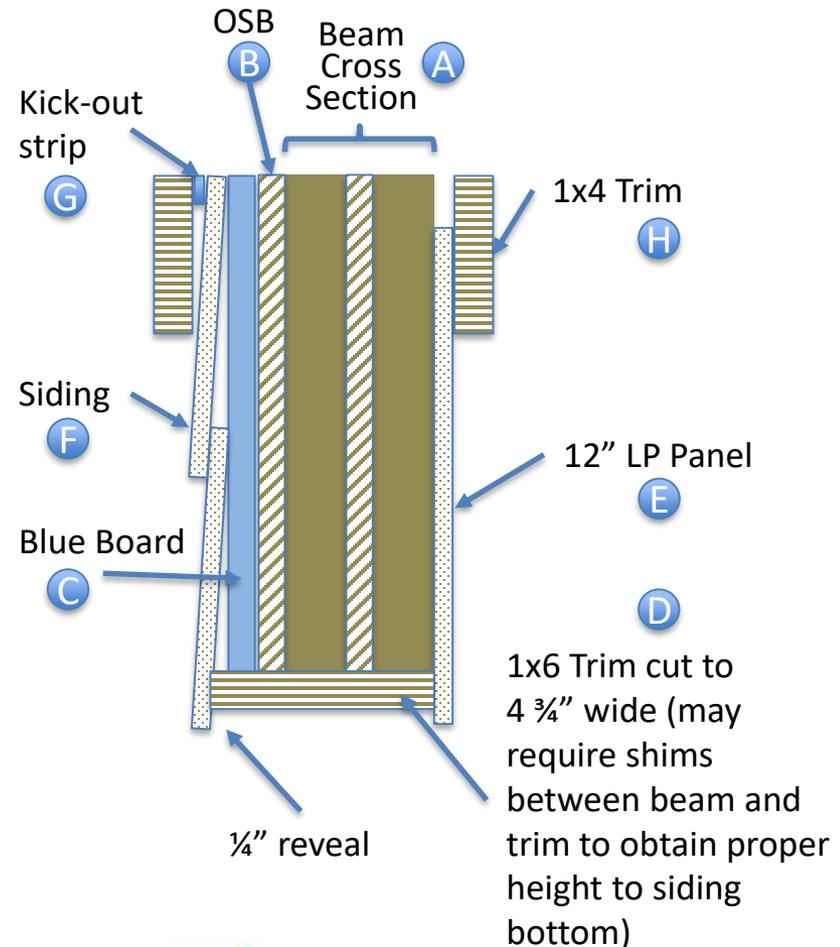
Porch Beam Trim-out (Trinity)

- 🏠 Beam trim out cross section
- 🏠 Beam siding aligns with house siding
 - 🏠 Critical 1st row at 91"
- 🏠 Install per sequence shown



Porch Beam Trim-out, Alternate (Trinity)

- 🏠 Beam trim out cross section
- 🏠 Beam siding aligns with house siding
 - 🏠 Critical 1st row at 91"
- 🏠 Install per sequence shown



Porch Trim Out (Trinity)

🏠 Trim Install Process

🏠 Install 1x4 corners

🏠 Inside (x2)

🏠 Left outside (siding bottom to soffit)

🏠 Wrap walls to ceiling w/1x4

🏠 Add brick frieze over siding exposed to cover brick end (~2")

🏠 1x4 wrap around beam over siding

A

B

C

D

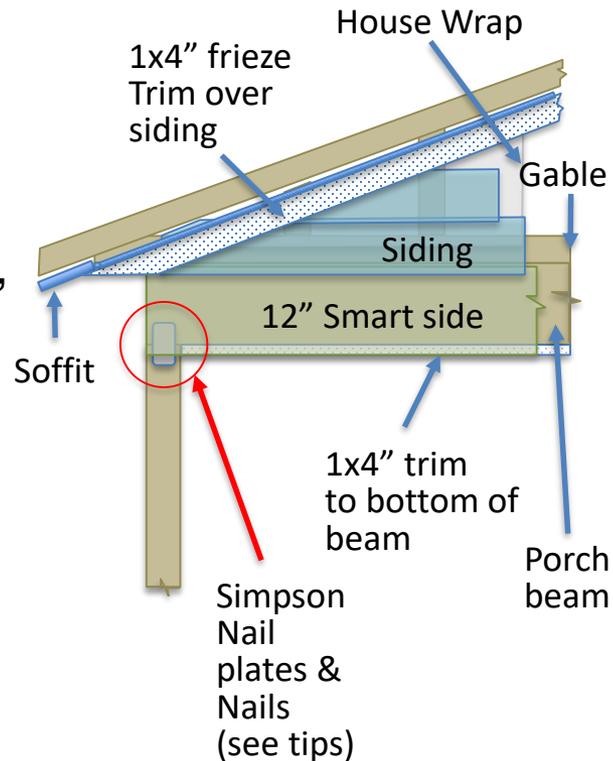
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Beam and Gable Trim Out

🏠 Install Process

- 🏠 House wrap
- 🏠 1x4 trim to bottom of beam
- 🏠 12" Smart side (beam trim)
- 🏠 Siding starts ~ 1" below top of beam trim
- 🏠 1x4 frieze trim over siding
- 🏠 Add 1x4 trim on top of side beams covering beam trim and touching the soffit.



Beam and Gable Trim Out Tips

- 🏠 Eave soffit on the front porch should run to the back side of the gable siding (3/8" beyond gable)
 - 🏠 If gap exists between siding and soffit, install 1x4 flat to trim gap
- 🏠 If possible, slightly "Dado" (chisel or router out) the area (post and beam) where the Simpson Nail Plates mount to ease install of the beam trim
 - 🏠 Observe caution if cutting out relief for the plates on the beam trim due to 3/8" thickness

Posts Trim Out

🏠 Install Process

- 🏠 Add 1x6 cedar trim collar around post (top & Bottom)
 - 🏠 Note some of the pieces require “dado/rabbit” cut to clear Simpson ties (top) and mounting plates (bottom)
 - 🏠 Finish nail 45° pieces noting Simpson plates
 - 🏠 Bottom collar should be $\frac{3}{4}$ ” off the slab
- 🏠 Add 1x2 cedar strip collars in similar manner as 1x6 (note Simpson plates)



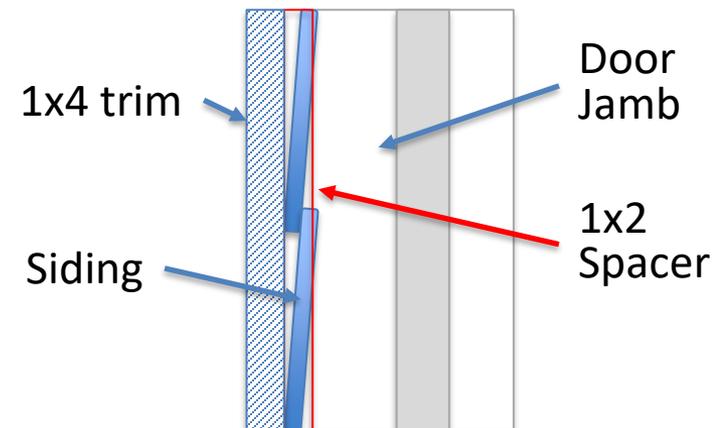
Front Door Trim Out

🏠 Install Process

- 🏠 Remove existing “brick mold trim”
- 🏠 Add 1x2” spacer on top of door jamb flush with edge of jamb and thick enough to compensate for the $\frac{3}{4}$ ” of siding overlap thickness
- 🏠 Install 1x4 trim on top and sides of door jamb/spacer (top 1x4 has $\frac{3}{4}$ ” overhang on each side)
 - 🏠 Bottom of vertical trim should align with the bottom of the siding

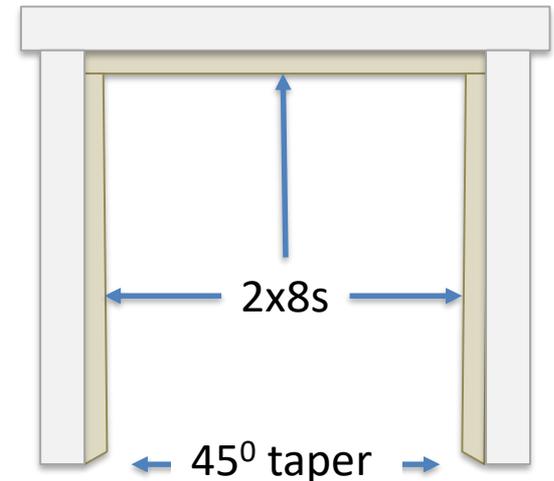


Cross Section



Garage Door Trim Out

- 🏠 Install Process
- 🏠 Measure width of garage wall frame to highest siding overlap. Add $\frac{1}{2}$ " for inside sheet rock. (Trimmed 2x8 ~ $5\frac{3}{4}$ " wide)
- 🏠 Cut pressure treated 2x8s to above width dimension (staff cuts on table saw)
 - 🏠 Install top 2x8 length of opening using 2 $\frac{1}{2}$ " finish nails where outside edge is $\frac{3}{4}$ " beyond blueboard (accounts for siding overlap)
 - 🏠 Install side 2x8s with bottom tapered at 45° (bottom should be $\frac{3}{4}$ " off slab)
 - 🏠 Critical: prime 45° taper!
 - 🏠 Install 1x4 trim over siding and 2x8s leaving a $\frac{1}{4}$ " reveal. Leave $\frac{3}{4}$ " overhang for top 1x4 **Note: Top Trim Flashing – next page**



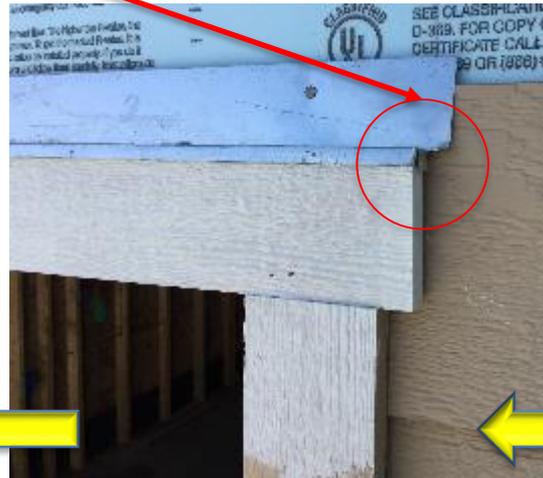
Garage Door Trim Flashing



2x8 3/4" from Blue Board

Ensure at least 1 +/- 1/4" spacing – top trim to edge of siding top

Flashing folded over end of trim



Brick Frieze (Eaves, Rake, Porch)



Porch Frieze



"Bird Box" & Rake Frieze



Siding/Brick Transition

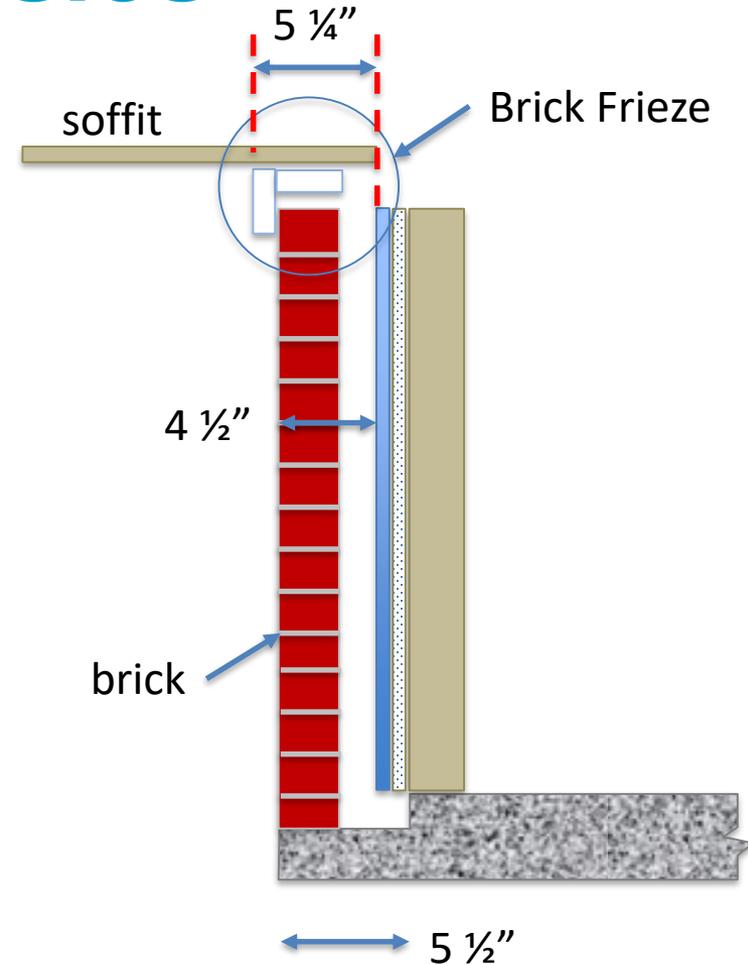
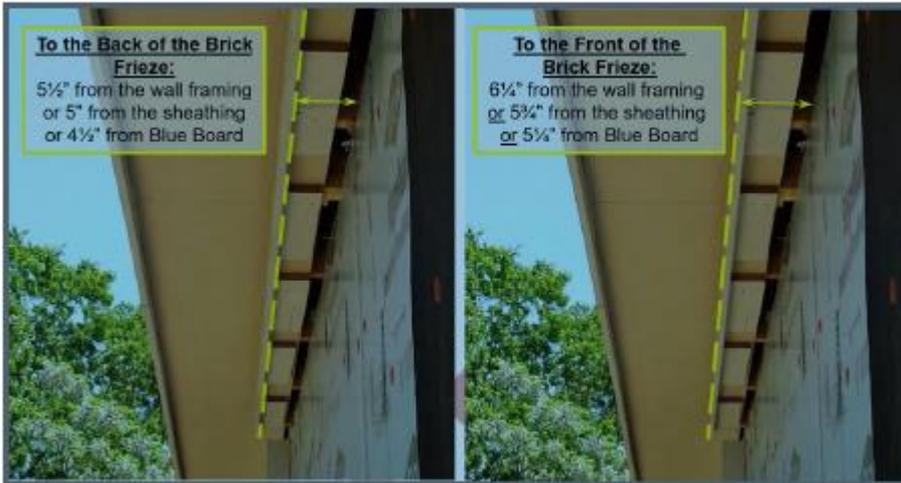


Eave Frieze

Brick Frieze Trim Basics

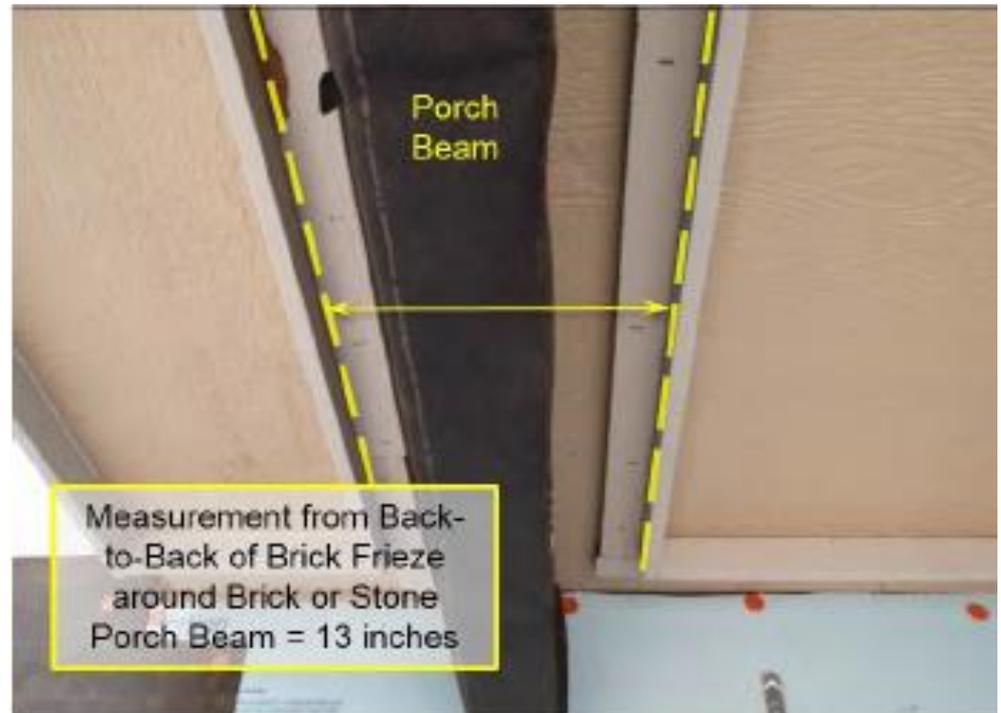
🏠 Preparation & Install

- 🏠 Typically 1x2 (split 1x6) for rakes, porch & eaves nailed to scrap material
- 🏠 Nailer 4 ½" from blueboard
 - 🏠 If installed as a California corner, outside of frieze is 5 ¼"
- 🏠 Pop a chalk line on the soffit to ensure a straight install

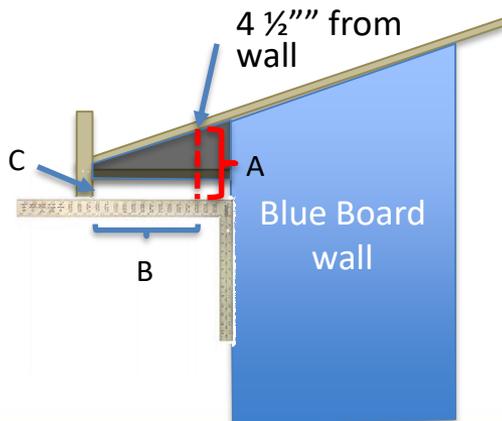
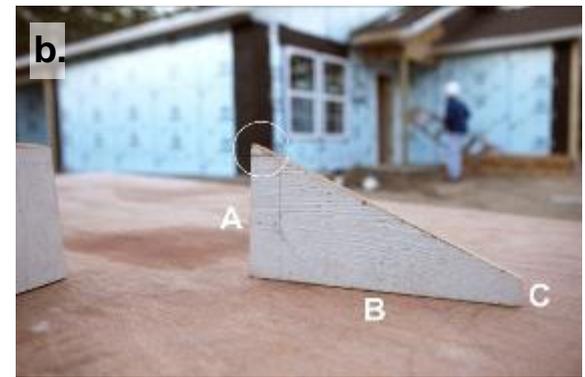
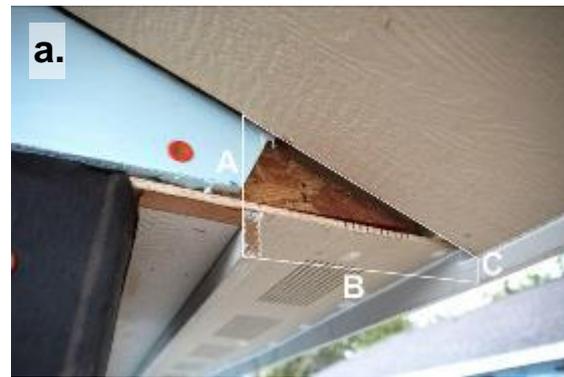


Brick Frieze Around Porch Beam

- 🏠 Preparation and Install
 - 🏠 For elevations with brick on both sides of porch beams
 - 🏠 Install as normal frieze but ensure 13" spacing (inside to inside)



Bird Box Assembly (Eave to Rake Transition)



Brick to Siding Transition

🏠 Preparation & Install

- 🏠 Install 1x6 (bottom siding to soffit)
 - 🏠 Add 1x4 to front corner as a nailer
 - 🏠 Install ½ of 1x6 past corner
- 🏠 Add small spacer to project trim to 4½" spacing
- 🏠 Add triangle trim piece (depends on plan), bottom level with fascia, top against rake soffit



Trim

🏠 Quality Checks

- 🏠 Check for minimal gaps between trim pieces and between trim and other materials (all gaps must be caulked)
- 🏠 Check that finish nail heads are below surface of trim
- 🏠 Check that all trim cuts meet desired look
 - 🏠 Square cuts are square
 - 🏠 Angled cuts are clean in appearance (not ragged)
- 🏠 Check that all joints between trim are Butt joints that fit tightly and are flush on the top surface

Paint Prep Tools & Materials

Tools	Materials
Hammer & Nail Sets	Caulk
Utility Knife	Spackle
Caulk Guns	Paper towels & Rags
Ladders	Blue Painter's Tape
Flat Brushes 3" to 4"	Sandpaper
Angled Brushes (1 ½" to 2 ½")	Plastic & Felt (drop cloth)
Paint Buckets	Siding paint
Rollers & ext. Poles	Trim Paint
Roller Covers & Trays	Accent paint
Wire Brush or Paint Brush Comb	
Clean-up items (hose, buckets ...)	

Painting Safety

- 🏠 Ladders properly positioned, especially ext. ladders
- 🏠 Painting upper areas (soffit, gables, ...) be aware of those below
- 🏠 Hard hats worn at all times



Paint Preparation (Key to Quality Job)

- 🏠 Caulk seams for virtually invisible look
 - 🏠 Seams where 2 pieces meet (soffit, trim, etc.)
 - 🏠 Vertical seams where siding “butts” to corner, window or door
 - 🏠 Corners where pieces of door trim meet
 - 🏠 Other seams where two pieces meet or butt against siding
- 🏠 Caulk tube tip – 45⁰ and small as possible
- 🏠 Caulk steadily on seam and wipe/press into seam

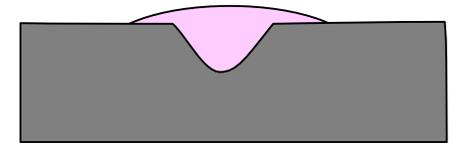


Caulk Tips

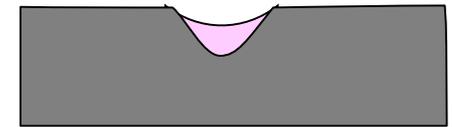
- 🏠 Use finger (preferably wet) and/or wet rag to remove and smooth out caulk – NO GLOVES!
 - 🏠 Smooth out caulk with grain
 - 🏠 Caulk can not be sanded!
- 🏠 Make sure soffit / fascia seam is caulked

Spackle

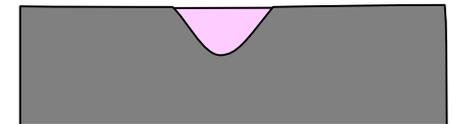
- 🏠 When available, fill nail holes with spackle
- 🏠 Spackle doesn't shrink as much as caulk
- 🏠 Smooth excess with grain!
- 🏠 Nail heads protruding above the surface need to be sunk using a nail punch



Too much spackle left behind



Too much spackle removed or not enough used



Proper result

Painting Techniques

- 🏠 Rollers for large surfaces (soffit, siding, ceilings, ...). Brushes for all other
- 🏠 Two thin coats better than one heavy
 - 🏠 If partially painting corners, feather out from corner
 - 🏠 Ensure first coat is thoroughly dry
 - 🏠 Smooth drips immediately or will dry forever
- 🏠 Ensure junction of two colors (trim / siding) gets covered

Painting Tips

- 🏠 ALWAYS protect the concrete by laying down felt or poly or drop clothes before doing any painting.
- 🏠 Brush
 - 🏠 Dip only 1/3 of brush in the paint
 - 🏠 Use long even strokes feathering edges
 - 🏠 Paint with tip of brush, not sides (e.g. doors)
 - 🏠 Paint following the grain
 - 🏠 Wrap brush in plastic if set aside for awhile
 - 🏠 Use angled brush for cutting in
 - 🏠 Cut in from below (siding vs trim)
 - 🏠 Load brush and start below the area to be cut in and move narrow brush edge to the seam

Painting Tips (cont'd)

🏠 Roller

- 🏠 Fill roller pan well to half depth
- 🏠 Apply paint to roll cover and try to avoid paint on the roller itself
- 🏠 Use tray grid to get excess paint off of the roller
- 🏠 Too much paint on surface = globs/drips, pushing hard for paint = insufficient paint
- 🏠 Horizontally roll siding, flipping the roller helps distribute all the paint

Exterior Paint

🏠 Colors

- 🏠 Typically marked on container (trim - typically white, siding - siding color, accent – doors)

🏠 Paint tasking

- 🏠 Trim: 2-3 people per house side / section
- 🏠 Siding: 3-4 people per house side (1 roller, 2-3 brushing)
- 🏠 Accent: 1 very meticulous painter

Painting Doors

- 🏠 Tape off knobs, locks and hinges with blue tape
- 🏠 Brush in direction of grain
- 🏠 Latch edge is painted the interior color



- Order of Painting:
1. Bevels
 2. Panels
 3. Rails
 4. Styles
 5. Hinge edge side of door

Clean-up

- 🏠 All paints used by DAHFH are latex based and can be cleaned with water
 - 🏠 Clean brushes and rollers, toss covers when done
 - 🏠 Wire brush or comb can be used to remove dry paint from brushes

Questions?



Dallas Area
Habitat
for Humanity®

Thanks!

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