WAUSAU SIDING systems™

APPLICATION GUIDE

It is highly recommended that you review this entire guide before beginning any project that involving the following Wausau Siding Systems™ products:

- RigidStack™ Siding
- Decorative Shapes
- Outside + Inside Corners
- Trim Solutions
- Soffit + Fascia

IMPORTANT: Please read before you begin installation.

DESIGNED WITH THE INSTALLER IN MIND

We provide the professionals with the information they need. Our installation video series on YouTube showcases our products and how to properly install them.
Visit: youtube.com/diamondkoteprefinish

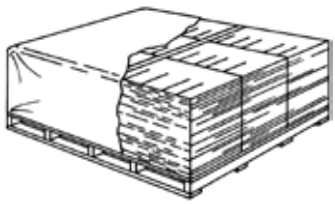
Scan to view
our Install Videos.

We recommend to install items in this order:
Housewrap
Mounting Blocks
Necessary Flashings
Soffit + Fascia
Trim + Corners
Starter Board or Starter Strip
Siding + Decorative Shakes

STORAGE

Proper storage of Diamond Kote™ pre-finished product is important for protection.

- Store flat on a dry, clean and well supported surface.
- Protect material from direct exposure to the weather.
- DO NOT store product directly on the ground.
- Wausau Siding Systems™ 4-Packs and 2-Packs are not waterproof. All products MUST BE KEPT DRY and covered at all times before it's installed.

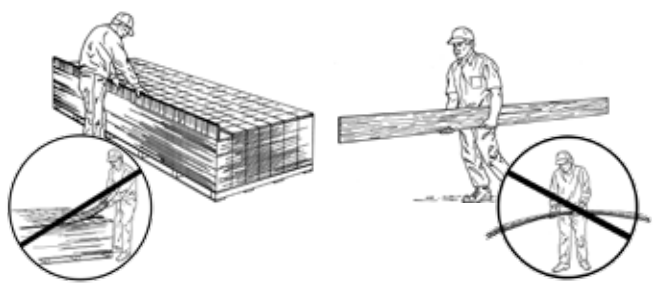


STORE UNDER COVER

HANDLING

Because product may come in long, heavy sections, proper handling is essential.

- Carry shrink wrapped bundles to desired location before opening the package to avoid damaging the painted surface. Do not carry in a flat position.
- Pick up the product from the center to avoid marring the surface of the item below.
- Only carry multiple pieces face-to-face or back-to-back to avoid scratching, scuffing or high point abrasion of the painted surface.
- DO NOT slide pre-finished material across each other.
- Support the product when you cut large pieces.



PRIOR TO INSTALLATION

- Inspect product for breakage, foreign objects, surface defects, color consistency, and color correctness before you install it. Report any problems to your dealer BEFORE you begin installation. Do not install questionable product.
- Sealed product can become saturated if not protected during storage. If product becomes saturated, do not install it until it dries out.

GENERAL GUIDELINES

Minimum 6" clearance must be maintained between siding and finish grade.

- Siding applied adjacent to porches, patios, walks, roof lines etc. must have a clearance of at least 1" above any surface.
- All exposed wood substrate must be primed and painted in a manner that prevents moisture intrusion and water buildup.
- See alternate fastening options for fastening lap siding to SIP, ICF and Steel Frame assemblies. (See What To Fasten section on pg. 13 for fastening recommendations.)
- When using wet blown cellulose insulation adequate drying time must be allowed prior to enclosing the wall cavity.

INSULATED SHEATHINGS

Note: DO NOT USE STAPLES.

Wausau Siding Systems™ products may be installed over low-compression rigid foam or exterior gypsum sheathings. The following precautions must be followed:

- Nailable structural sheathing must be behind insulated sheathing.
- Adequate bracing of the wall in accordance with the international codes or other ruling building code is required.

Continue on the next page.

- For rigid foam sheathing up to 1" thick, siding may be nailed directly to the foam sheathing unless a drainage plane is required by the local building code. Nail length must be increased to ensure a minimum 1-1/2" fastener penetration into the structural framing.

Note: Wausau Siding Systems™ products may also be installed in compliance with category 8140- Exterior wall siding and sheathing for Wildland Urban Interface (WUI) applications atop LP FlameBlock sheathing. Refer to FlameBlock installation instructions and product data sheets. All Wausau Siding Systems products may be installed as exterior siding in Wildland Urban Interface (WUI) applications installed over one layer 5/8" Type X gypsum sheathing applied behind the exterior covering or cladding on the exterior side of the framing. They may also be installed over the exterior portion of a 1-hour fire-resistive exterior wall assembly designed for exterior fire exposure including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual.

- For rigid foam sheathing greater than 1", a minimum 1-1/2" thick by 3-1/2" wide vertical strapping or furring strip must be installed over the sheathing to provide a solid, level nailing base for the siding. The strapping must be securely fastened to structural framing spaced no greater than 16" o.c. with a minimum fastener penetration of 1-1/2".
- Wausau Siding Systems will assume no responsibility for any damage or condition arising from the use of foam sheathing.

MOISTURE

- Moisture and vapor control are critical elements of proper housing design. Check your local building codes for application procedures for handling moisture and moisture vapor in your area.

- As with all wood products, do not apply engineered wood siding to a structure having excessive moisture conditions such as drying concrete or plaster. If such conditions exist, the building should be well ventilated to ensure the substrate is completely dry prior to siding application.
- Siding must not be applied to green or crooked structural framing members. Do not apply siding over rain-soaked or buckled sheathing materials.
- We recommend protecting your home from rainfall with gutters and downspouts. Additionally, you should always be sure that your drainage system is free of debris and working properly.

SECONDARY WEATHER-RESISTANT BARRIER

- A properly installed breathable water-resistant barrier is required behind the siding.
- Consult your local building code for details.
- Wausau Siding Systems™ will assume no responsibility for water penetration.

STUD SPACING

- Wausau Siding Systems products must be applied over sheathed walls into studs spaced no greater than 16" o.c.
- In all installations over masonry walls, the wall must be furred out with wood framing spaced 16" o.c. and with adequate thickness to accept the full length of the recommended nail.

GAPS + SEALANTS

- Seal all gaps with a paintable sealant that meets ASTM C920 Specification. We recommend the DAP Spec Line 920.

Note: DO NOT apply sealant to butt joints.

- Follow the sealant manufacturer's instructions for application or view the Caulking video which is on our Diamond Kote YouTube Channel.

TOUCH-UP PAINT GUIDELINES

Before starting, read all label instructions and warnings.

APPLICATION PURPOSE

Diamond Kote™ touch-up paint is intended for use on Diamond Kote pre-finished products. We cannot guarantee the performance of Diamond Kote touch-up paint on products not originally pre-finished with Diamond Kote.

Only apply paint to the bare area. DO NOT APPLY PAINT OVER PAINT.

Please do the following:

- Paint all exposed cut edges of siding surfaces including drip edges. Apply a small amount of touch-up paint using the provided foam brush to seal all cut edges. Avoid getting touch-up paint onto the face of the boards and try not to apply more paint than needed.
- Thoroughly paint the bottom edges of siding especially all cut ends next to the roof line.
- Touch-up paint on all exposed face nails. Cotton swabs are recommended for touch-up painting on the finished face of products.
- Follow the coating manufacturer's application and maintenance instructions or go to the Diamond Kote Touch-Up Paint Best Practices Video which is on our Diamond Kote YouTube Channel.

Paint Care

Do not allow touch-up paint to freeze. Keep container from freezing.

- Stir touch-up paint for a minimum of 10 minutes before use. Heavier pigments in the paint settle to the bottom requiring the paint to be thoroughly mixed before use. Clean up with water is recommended.

Surface Preparation

- Surface must be clean and dry.
- Test the color on a sample piece or hidden area of the siding/trim before applying.
- Nail heads and other small imperfections can be touched-up using a cotton swab by simply dotting the desired area. Do NOT fan out or try to blend the paint.
- Allow 24 hours dry time.

Scan to view Touch-up Video

TRIM

- Trim should be thick enough so the siding does not extend beyond the face of the trim.
- Trim must be applied in a manner that will not allow moisture intrusion or water buildup.
- Lap siding and panel siding are not designed and/or manufactured to be used as trim. An assortment of trim is available in a variety of dimensions.

FLASHING, WINDOWS, DOORS + OPENINGS

- All openings must be properly sealed or flashed in a manner that prevents moisture intrusion or buildup. Several examples that accomplish this are shown on the following pages.
  (see figure 1c on pg 12)
- Siding applied adjacent to porches, patios, walks, etc. must have a clearance of at least 1" above any surface. The surface must be sloped or otherwise designed to provide proper drainage so the siding is at no time directly exposed to standing water. (see figure 1 on pg 12)

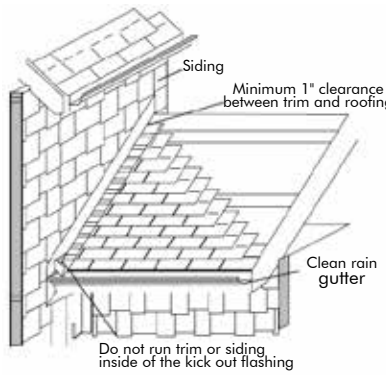
KICK-OUT FLASHING

Note: DO NOT extend the siding or trim into the kick-out flashing or gutter cut siding as shown.

- Install kick-out flashing to direct the water into the gutter. A recommended product would be the DryFlekt® Kick-Out Diverters.
- Install step flashing with minimum 4" upper leg.

Properly integrate flashing with the secondary water-resistive barrier. Use house wrap, flashing tape, z-flashing, or other items as needed to maintain the counter flashing principle.

- Maintain a clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of the siding.
- Paint ALL exposed cut edges.
- Roof to wall details. (see figure 1a pg 12)



FASTENING

WHERE TO FASTEN

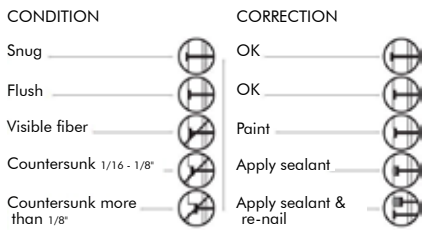
- Fasteners will be exposed on siding located immediately below window sills, fascia boards, and horizontal trim. Fasteners below window sill shall be spaced a maximum of 8" o.c.
- Face nailing may be required as necessary in order to obtain satisfactory installations.
- Blind fasten 3/4" down from the TOP edge.
- For installation with or without wood structural panels, joints must occur over stud locations.
- For best performance use hot-dipped galvanized nails with a minimum 1/4" diameter head. Nail at all special framing members around openings.

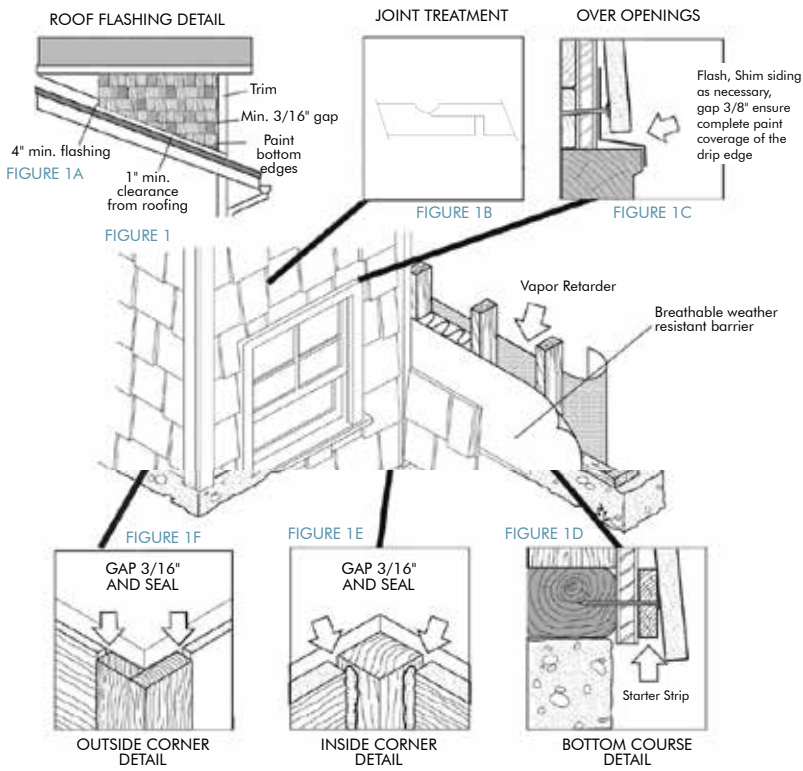
Note: Nails MUST penetrate framing members when available at least 1-1/2".

Nail from the center of the siding toward the ends, or from one end to the other end. NEVER nail from the ends of the siding toward the middle.

- Shim siding at studs as needed, to avoid drawing siding against uneven walls.
- When installing siding over up to 1" rigid foam sheathing, care must be taken not to drive fasteners so hard as to compress the foam and distort the siding surface.
- Wausau Siding Systems™ products should be cut in a manner to avoid marring the finished face. Face up with a combination blade power miter saw is recommended.
- Do NOT force or spring siding into place. Where siding butts window trim, door casing, masonry, etc., leave a 3/16" gap and caulk. DO NOT caulk butt joints.
- Seal all gaps with a paintable sealant that meets ASTM-C920 Specification. DAP Spec Line 920 recommended.
- Use drip-cap flashing above all horizontal trim to ensure a weather-tight installation. 1" drip cap is available in all Diamond Kote colors.

Note: DO NOT OVERDRIVE FASTENERS. Head should seat firmly to face of siding, but not be overdriven to distort the siding surface.





WHAT TO FASTEN

For information on fastening decorative shape siding products in high wind speed areas, refer to ICC-ES Report ESR-1301.

- The transverse windload design values in table 4 of the APA Product Report PR-N124 may be used when the following fasteners specifications are met.
- Fastening options for Wausau Siding Systems™ products for over structural sheathing and 24" o.c. wall framing, SIP assemblies, ICF assemblies, and over corrosion resistant steel stud framing.

Alternative Fastening Option for Wood Structural Panels and 24" o.c. Stud Spacing - or - SIP Assemblies.

The sheathing must be a minimum 7/16" thickness with an APA rating. The Engineered Wood Association™ that contains the consensus standard DOC PS2.

- Must be fastened with either corrosion resistant screws or corrosion resistant ring shank nails.
- For screws fasten: 12" o.c. use a minimum #8 corrosion resistant tapered head wood screw.
- For nails fasten: 8" o.c. use a minimum 6d (0.99" shank diameter) corrosion resistant ring shank nail.

ALTERNATIVE FASTENING OPTION OVER ICF ASSEMBLIES

Minimum #8 hot-dipped galvanized tapered head self-drilling screw with a 0.270" diameter head.

- Minimum penetration of 3/8" beyond the thickness of the nailing flange.
- Larger screws may be required by the ICF Manufacturer based on the following minimum withdrawal requirements.
- Minimum withdrawal value of the ICF nailing flange must be 50 lbs. with a maximum 12" o.c. screw spacing.
- Minimum withdrawal value of the ICF nailing flange must be 31 lbs. with a maximum 6" o.c. screw spacing.

ALTERNATIVE FASTENING OPTIONS OVER CORROSION RESISTANT STEEL STUD FRAMING

- Minimum withdrawal value of the steel framing must be 50 lbs. Refer to the framing manufacturer's evaluation report.

38 Series Precision lap must be fastened with:

- Steel stud spacing a maximum spacing of 16" o.c.
- Minimum #8 hot-dipped galvanized tapered head self-drilling screw with 0.270" diameter head.
- Minimum of 5 threads beyond the combined thickness of the siding and framing.
- Minimum steel framing thickness 0.032" or 20 gauge.

TRADITIONAL LAP APPLICATION

SPACER CLIPS

Note: Siding clip is intended for alignment and spacing only. It is not intended to support the weight of the siding. Break off clips before siding is completely nailed tight.

- Hook clip to top of the first row of siding.
- Slide siding down into clip shelf.
- Before fastening, follow manufacturers directions for nailing.
- When complete, strike the clip with hammer to knock it off.

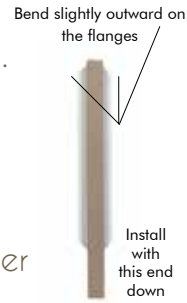


Figure 2a

JOINT PREPARATIONS | H-MOLDING

- DO NOT space the board for expansion.
- Leave a 1/4" gap between siding pieces.
- Gap 3/16" plus thickness of H-Molding web equals 1/4".
- Apply both adjoining pieces of siding fastening along the entire length except for the ends, with the required gap. Be sure to butt the factory painted ends of the board over the stud.
- Then slide the H-Molding in place, from the bottom of the siding up, with the notched end of the molding down. Bending slightly outward on the flanges first will help the H-Molding slide in place more easily. (See figure 2a)
- Finish fastening by nailing, both pieces of siding at the end of the siding angle the nails slightly to hit the stud. Fasteners should be driven 3/4" down from the top and 3/8" in from the ends.
- Fasteners will be exposed on siding located immediately below window sills, fascia boards, and horizontal trim. Fasteners below window sill shall be spaced a maximum of 8 in. o.c.
- When attaching siding, avoid nailing closer than 1-1/2" from the end of the board so the power nail does not penetrate the nail fin of WSS trims.

Please refer to the substrate manufacturer's installation instructions for proper joint spacing, field caulking directions and guidelines or go to the Wausau Siding System's Proper Caulking Techniques Video on our Diamond Kote YouTube Channel.

RIGIDSTACK APPLICATION

- Apply siding over properly prepared walls. (see general information)
- Wausau Siding Systems™ RigidStack™ is intended to be installed blind fastened and can be installed by starting with a RigidStack Metal Starter Strip, or by stacking onto a Wausau Siding Systems Starter Board.
- Begin by installing Wausau Siding Systems Outside Corners and Trim.
- Next install the appropriate starter material being sure to keep the bottom of the RigidStack at least 6" from finished grade.

INSTALL USING STARTER BOARD

Starter Board can be installed at or below finished grade. Best practice is to install this with FastenMaster Cortex® Hidden Fastening System for PVC.

- For more information refer to CertainTeed Restoration Millwork® installation instructions.
- Be sure to snap a level line as this Starter Board will set the exact placement for the first course of RigidStack siding. (Figure 2b)

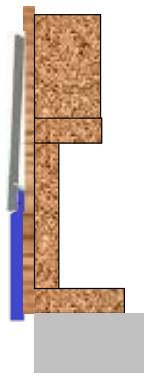


Figure 2b

- If the board is 6-12" wide, use three Cortex fasteners at every framing member.
- If the board is less than 6" wide, use two Cortex fasteners at every framing member.
- Install Starter Board using the recommended Cortex Hidden Fastening System in the following manner:
- Using the Cortex setting tool, set the Cortex fasteners perpendicular to the trim board, spaced a maximum of 16" o.c. Using a standard 18V cordless impact drill, drive the fastener to the pre-set level below the trim surface. Place the PVC trim plug into the hole with the trim-surface-side up, and gently tap until it is flush with the trim board. Finish by painting the plugs with Diamond Kote touch-up paint and a cotton swab.

INSTALL USING RIGIDSTACK METAL STARTER STRIP

- The bottom edge of RigidStack™ metal starter strip should be installed at the foundation along the sill plate or up to 1-1/8" below this to properly hold the bottom of RigidStack in place. Placement may vary as required by course layout. (see figure 2c)
- Snap a level chalk line 3-3/8" above the bottom of where the first course of siding will start. Align the TOP of the metal starter strip on the chalk line. RigidStack metal starter strip will set the exact placement for the 1st course of RigidStack.
- Fasten the RigidStack metal starter strip every 12-16" on center.
- Now install the first course of siding so that the plastic spline fastened into the back of the siding fits over the beveled edge of the starter board (Figure 2b) or into the metal starter strip as shown in. (Figure 2c)

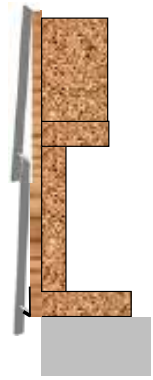


Figure 2c

- Make sure that the spline is firmly seated to the top of the previous course BEFORE and DURING nailing to ensure the material lines up at the butt joints and at course lines at the corners.

Note: LEAVE A 3/16" GAP WHERE SIDING BUTTS AGAINST TRIM TO ALLOW FOR EXPANSION.

- When attaching siding, avoid nailing closer than 1-1/2" from the end of the board so the power nail does not penetrate the nail fin of WSS trims.

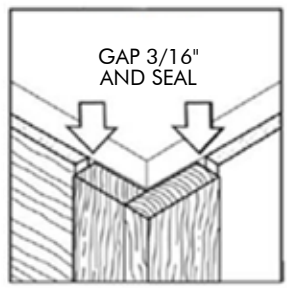


Figure 2d

- Fasten the siding by nailing through the nailing line (about 3/4" from top edge of siding) at EACH STUD LEAVING NO MORE THAN 16" BETWEEN NAILS. Begin nailing at one end of the siding and work toward the other end to prevent rippling of the siding. Do not countersink nail heads.

- Then install subsequent courses of siding so that the plastic spline fits over the top edge of the previously installed piece of siding.
- The butt joints between adjacent siding pieces must be located over the middle of a stud.
- With RigidStack™ siding, the butt joints are REQUIRED to be covered with a H-Molding. (Figure 2e)
- DO NOT space the board for expansion when using H-Moldings.
- Make sure that the spline is firmly seated to the top of the previous course by pushing in and down on the siding BEFORE and DURING nailing to ensure the material lines up at the butt joints and at course lines at the corners.
- Leave a 1/4" gap between siding pieces.
- Gap 3/16" plus thickness of H-Molding web equals 1/4".
- The best method is to apply both adjoining pieces of RigidStack™ fastening along the entire length except for the ends, with the required gap.
- Slide the H-Molding in place, from the top of the siding down, with the notched end of the molding down. Bending slightly outward on the flanges first will help the H-Molding slide in place more easily. (Figure 2f)
- Finish fastening by nailing both pieces of siding at the end of the siding angling the nails slightly to hit the stud. Fasteners should be driven directly through the nailing line.
- Fasteners will be exposed on siding located immediately below window sills, fascia boards, and horizontal trim. Fasteners below window sill shall be spaced a maximum of 8" o.c.

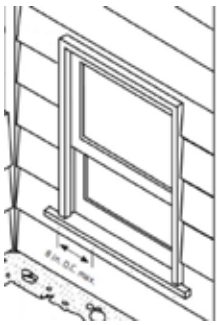


Figure 2e

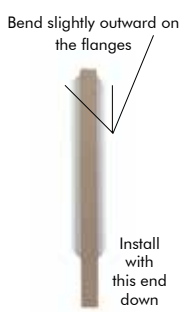
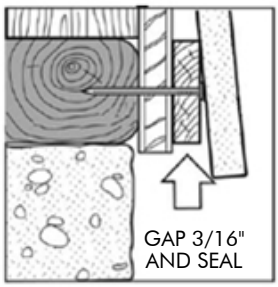


Figure 2f

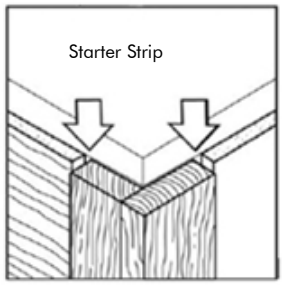
SHAKES | STRAIGHT EDGE APPLICATION

- Apply siding over properly prepared walls. (see general information) Nailable structural sheathing is REQUIRED.
- Wausau Siding Systems™ Shakes can be installed blind fastened.
- Start installation with a starter strip or by overlapping a previous course of lap siding (2" minimum). (see figure 3 on next page)
- For straight edge installations, starting right to left use a 3/8" x 1-1/2" shim of either wood, siding or metal starter strip. (see figure 3a below)

Bottom Course Detail
Figure 3a



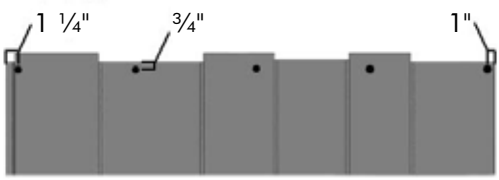
Outside Corner
Figure 3b



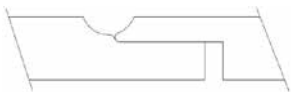
- Trim right edge so that siding section fits against corner board, with a 3/16" gap. (see figure 3b above)
- Butt joint seams are not required to land on studs.
- Starting from right, level and install the first course of shakes so bottom edge is flush with the shim. Do NOT place fasteners into bottoms of grooves or shiplaps.
- Fasten 3/4" down from the top of panel, into sheathing and/or framing with one of the below options.
- For screws fasten: 12" o.c. use a minimum #8 corrosion resistant tapered head wood screw. (see figure 3c)
- For nails fasten: 8" o.c. use a minimum 6d (0.99" shank diameter) corrosion resistant ring shank nail. (see figure 3d)
- Continue row, working right to left. Overlap shiplap butt ends without any gap. (see figure 3e)

- Overlap courses a minimum of 2". (see figure 3f)
- Start subsequent courses in same manner but trim each course to create the effect of staggered joints. Best appearance is by trimming second course starter piece 16" shorter than the first course and trimming the third course starter piece 32" shorter than the first. Repeat this same sequence every three courses. (see figure 3) Shim siding at studs, as needed, to avoid drawing siding against uneven walls.

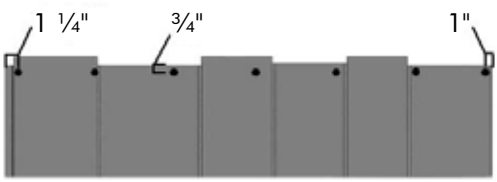
Screw Placement 12" o.c. Detail
Figure 3c



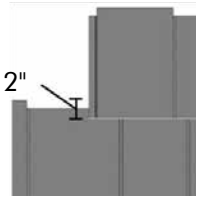
Minimum Overlap
Figure 3e



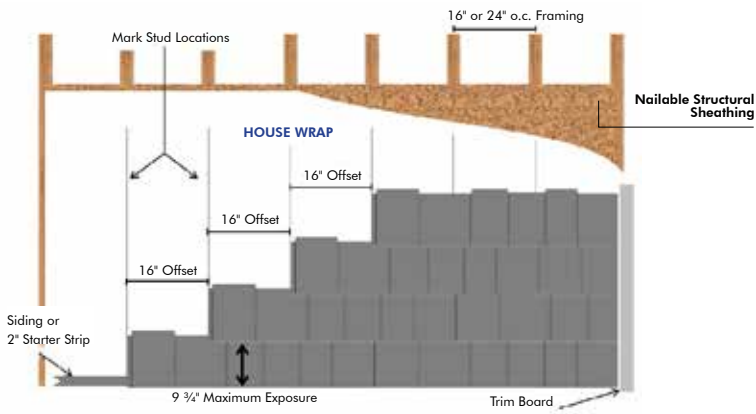
Nail Placement 8" o.c. Detail
Figure 3d



Minimum Overlap
Figure 3f



Straight Edge Application
Figure 3

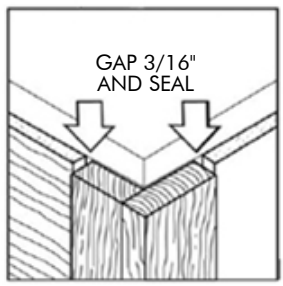


SHAKES | STAGGERED EDGE APPLICATION

- Apply siding over properly prepared walls. (see general information) Nailable structural sheathing is REQUIRED.
- Wausau Siding Systems™ Shakes can be installed blind fastened.
- Start installation with a starter strip or by overlapping a previous course of lap siding (2" minimum). (see figure 4 on next page)
- For staggered edge installations, starting left to right it is recommended to use a 3/8" x 2" piece of same color lap siding as a starter shim, as this will partially show because of the staggered bottom edge. (see figure 4a)
- Trim left edge so that siding section fits against corner board, with a 3/16" gap. (see figure 4b)

Bottom Course Detail
Figure 4a

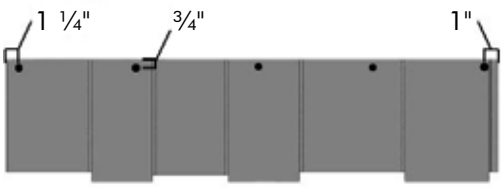
Outside Corner
Figure 4b



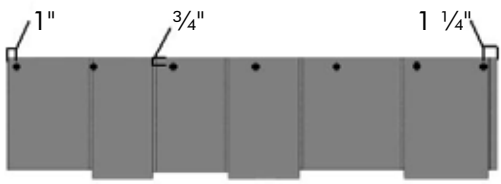
- Butt joint seams are not required to land on studs.
- Starting from left, level and install the first course of Wausau Siding Systems Shakes so bottom edge is flush with the shim. Do NOT place fasteners into bottoms of grooves or shiplaps.
- Fasten 3/4" down from the top of panel, into sheathing and/or framing with one of the below options.
- For screws fasten: 12" o.c. use a minimum #8 corrosion resistant tapered head wood screw. (see figure 4c)
- For nails fasten: 8" o.c. use a minimum 6d (0.99" shank diameter) corrosion resistant ring shank nail. (see figure 4d)

- Continue row, working left to right. Overlap shiplap butt ends without any gap. (see figure 4e)
- Overlap courses a minimum of 2". (see figure 4f)
- Start subsequent courses in same manner but trim each course to create the effect of staggered joints. Best appearance is obtained by trimming second course starter piece 16" shorter than the first course and trimming the third course starter piece 32" shorter than the first. Repeat this same sequence every three courses. (see figure 4) Shim siding at studs as needed to avoid drawing siding against uneven walls.

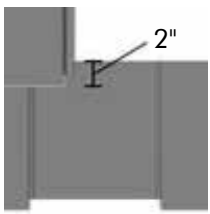
Screw Placement 12" o.c. Detail
Figure 4c



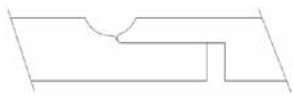
Nail Placement 8" o.c. Detail
Figure 4d



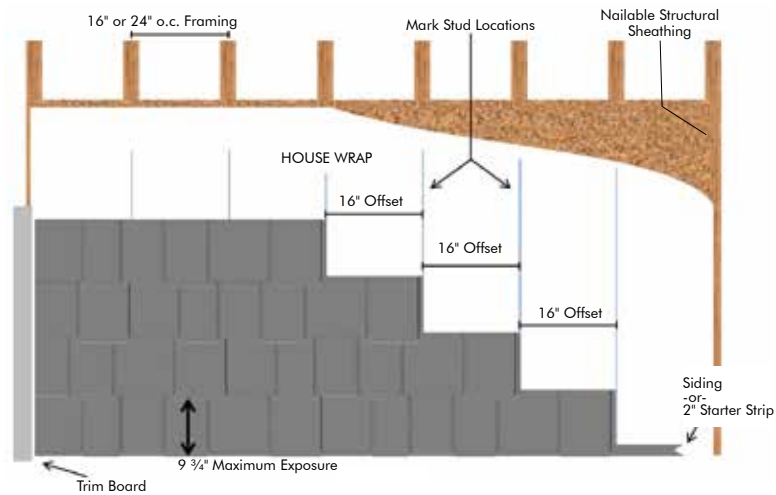
Minimum Overlap
Figure 4f



Minimum Overlap
Figure 4e



Straight Edge Application
Figure 4



OCTAGONS + SCALLOPS APPLICATION

GENERAL

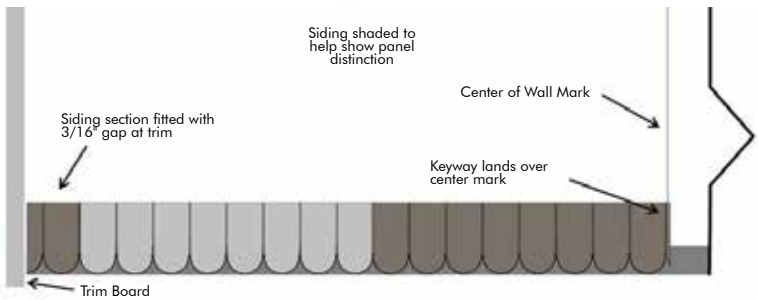
Prior to installation: Find the center of the gable or wall so the shapes will be visually centered.

- For best appearance, gable installations should end with a single scallop or octagon at the peak.

STRAIGHT WALL APPLICATION

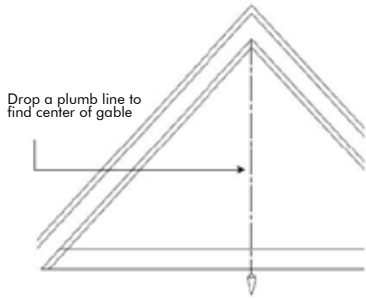
- Begin by measuring the length of the wall between the corner trims.
- Next, divide length of wall by two to find the center of the wall.
- Mark the center of the wall.
- The easiest layout for the octagons or scallops to be visually centered on the wall is to start so that a keyway lands over the center of wall mark.
- Calculate the layout of full panels from the center mark and make a mark on the wall (full panels measure 48").
- Measure from the trim to the mark so that siding section fits against corner board, with a 3/16" gap.
- Trim left side of a panel to fit and begin installation.

Layout of Scallops and Octagons from Center of Wall Mark

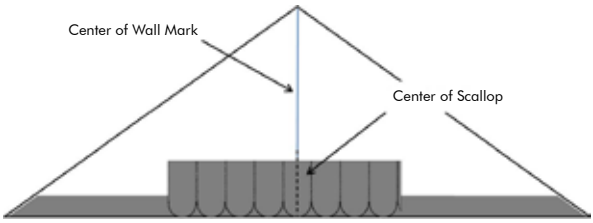


GABLE APPLICATION

- Start by dropping a plumb line to find the center of the gable.
- Mark this line.
- Next measure the height of the gable (in inches) on this line. For octagons divide by 9-5/8". For Scallops divide by 7-3/4".



- The purpose of this simple equation is to find out the number of courses or rows.
- Then divide the height of the gable by the size of the exposure of the profile that will be installed. Example: 64" gable height with scallops. (64"÷ 7.75" = 8.25) Eight is an even number, do not worry about the decimal, center on a keyway to start.
- If the answer is an even number, center the first course of scallop or octagons on a keyway.
- If the answer is an odd number, center the first course on a scallop or octagon.



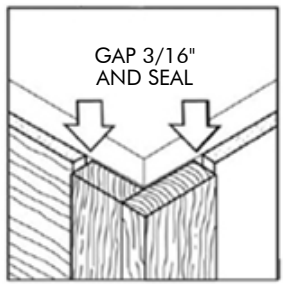
Begin installation by locating the first piece relative to the centerline of the gable. The panel may be positioned anywhere along its length, as long as the keyway or shingle face is centered.

OCTAGONS APPLICATION

- Apply siding over properly prepared walls. (see general information) Nailable structural sheathing is REQUIRED.
- Wausau Siding Systems™ Octagons can be installed blind fastened.
- Start installation with a starter strip or by overlapping a previous course of lap siding (2-1/8" minimum). (see figure 5 on the next page)
- For octagons installation, starting left to right, it is recommended to use a 3/8" x 2-1/8" piece of same color lap siding as a starter shim, as this will partially show because of the angled bottom edge. (see figure 5a)
- Trim left edge so that siding section fits against corner board, with a 3/16" gap. (see figure 5b)
- Butt joint seams are not required to land on studs.

Bottom Course Detail
Figure 5a

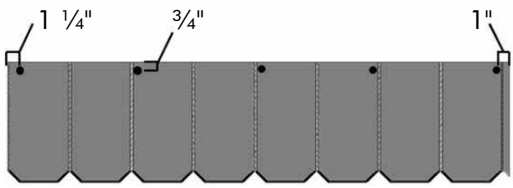
Outside Corner
Figure 5b



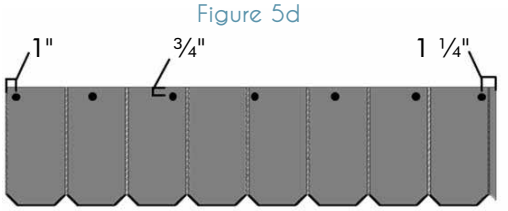
- Starting from left, level and install the first course of octagons so bottom edge is flush with the shim. Do NOT place fasteners into bottoms of grooves or shiplaps.
- Fasten 3/4" down from the top of panel, into sheathing and/or framing with one of the below options.
- Continue row working left to right. Overlap shiplap butt ends without any gap. (see figure 5e)
- Start subsequent courses in same manner by overlapping courses a minimum of 2-1/8". (see figure 5f) Offset each course to effect staggered joints. Best appearance is obtained by installing second course starter piece 21" shorter than the first course. (see figure 5)

- Start the third course starter piece 27" shorter than the 2nd course. (see figure 5) Repeat this same sequence every three courses. Shim siding at studs, as needed, to avoid drawing siding against uneven walls.

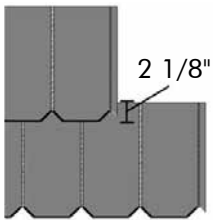
Screw Placement 12" o.c. Detail
Figure 5c



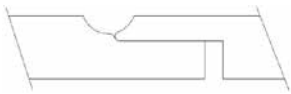
Nail Placement 8" o.c. Detail
Figure 5d



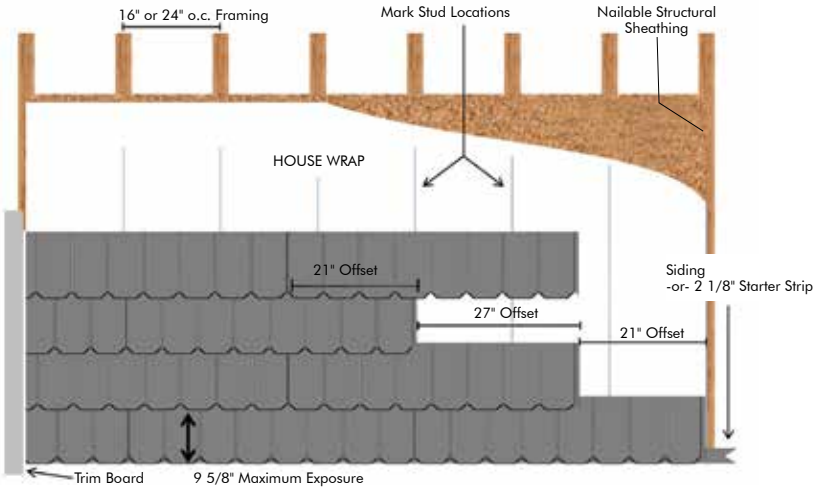
Minimum Overlap
Figure 5f



Minimum Overlap
Figure 5e



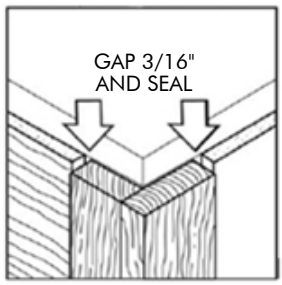
Octagon Application
Figure 5



SCALLOPS APPLICATION

- Apply siding over properly prepared walls. (see General Information) Nailable structural sheathing is REQUIRED.
- Wausau Siding Systems™ Scallops can be installed blind fastened.
- Scallops can be installed by starting with a starter strip or by overlapping a previous course of lap siding (4" minimum). (see figure 6)
- For scallops installation, starting left to right, it is recommended to use a 3/8" x 4" piece of same color lap siding as a starter shim, as this will partially show because of the rounded bottom edge. (see figure 6a)
- Trim left edge so that siding section fits against corner board, with a 3/16" gap. (see figure 6b)

Bottom Course Detail
Figure 6a

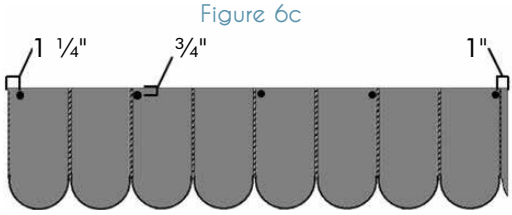


Outside Corner
Figure 6b

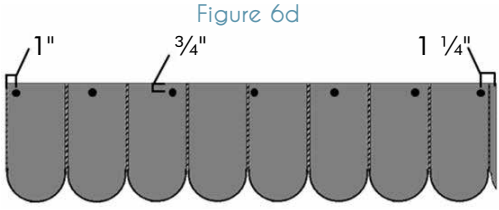
- Butt joint seams are not required to land on studs.
- Starting from left, level and install the first course of scallops so bottom edge is flush with the shim. Do NOT place fasteners into bottoms of grooves or shiplaps.
- Fasten 3/4" down from the top of panel, into sheathing and/or framing with one of the below options.
- Continue row, working left to right. Overlap shiplap butt ends without any gap. (see figure 6e)
- Start subsequent courses in same manner by overlapping courses a minimum of 4". (see figure 6f) Offset each course to create the effect of staggered joints. Best appearance is obtained by installing second course starter piece 21" shorter than the first course. (see figure 6)

- Start the third course starter piece 27" shorter than the 2nd course. (see figure 6) Repeat this same sequence every three courses. Shim siding at studs, as needed, to avoid drawing siding against uneven walls.

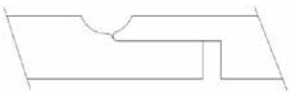
Screw Placement 12" o.c. Detail
Figure 6c



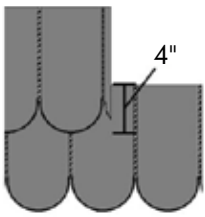
Nail Placement 8" o.c. Detail
Figure 6d



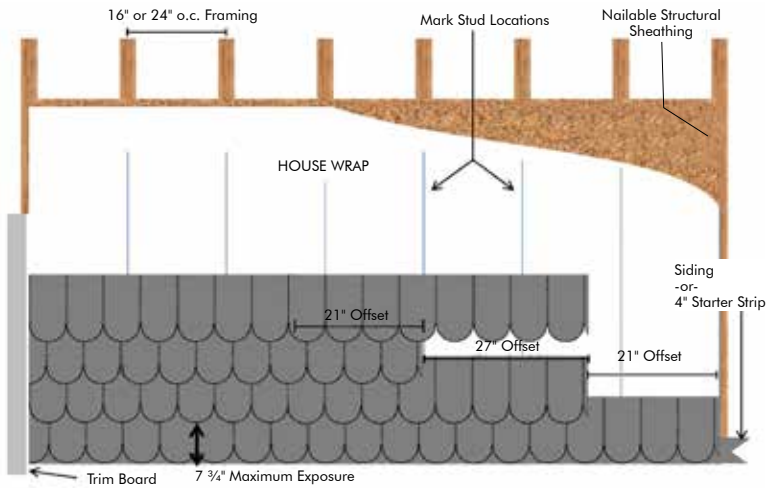
Minimum Overlap
Figure 6e



Minimum Overlap
Figure 6f



Scallops Application
Figure 6



OUTSIDE + INSIDE CORNER WITH NAILING FIN APPLICATION

- Apply corners over properly prepared walls. (see general information)

It is recommended to install corners with nailing fin over nailable structural sheathing. Some face nailing may be required if nailable sheathing is not present.

GENERAL

- Wausau Siding Systems™ Outside + Inside Corners with Nailing Fin are designed to be installed blind nailed through the attached nailing fins to help complete a hidden fastener installation.
- Install the corners and trims first before beginning installation of the siding products.
- Start by carefully removing corners from protective shipping packaging. Do not cut packaging on face of material.
- Avoid drawing corners against uneven or out of square walls. Make sure before installation that foundation or foundation coverings do not project beyond the plane of the wall. Shim as necessary to avoid potential to split corners lengthwise.

CUTTING

- Measure and mark corners for length typically 1/2-3/4" lower than the bottom course of siding.
- Cut outside corners carefully to avoid marring the finished surfaces. 4" corners can be cut utilizing power compound miter saws. 6" corners typically require cutting by hand or by circular saw. It is recommended to cover the bed of circular saws with tape or protective coverings to avoid marring the finished surfaces.

SEALING

- Paint and/or seal ALL cut ends and edges of corners. (see figure 7a)
- Cotton swabs are recommended for touch-up painting on the finished face of products.

NAILING INSTRUCTIONS

Note: NOT RECOMMENDED to use pneumatic roofing, or siding nail guns to install trim with nailing fin.

- When attaching siding, avoid nailing closer than 1-1/2" from the end of the board so the power nail does not penetrate the nail fin of WSS trims.
- Hand driven galvanized roofing nails are recommended for installing outside + inside corners.
- When installing corners over (up to) 1" rigid foam sheathing, care must be taken not to drive nails so hard as to compress the foam and distort the fin. Nail length must be increased to ensure penetration of the wood substrate.

INSTALLATION

- Hold outside + inside corners with nailing fin up to the wall, level, plumb and set it to the correct height before nailing.
- Alternate nailing through the fin in the provided holes on both sides of the corner.
- Fasten EVERY 3RD HOLE. (see figure 7b)
- DO NOT OVERDRIVE NAILS. Nail head should set firmly to face of fin, but not be overdriven to distort or damage the fin surface.

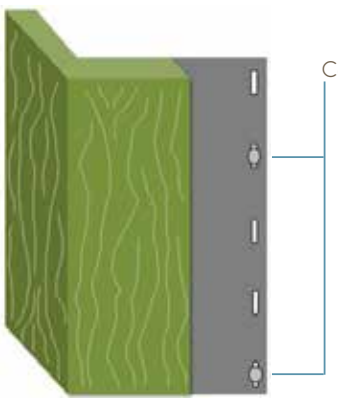


Figure 7b

Figure 7a

TRIM WITH NAILING FIN APPLICATION

- Apply trim over properly prepared walls. (see general information)
- It is recommended to install Trim with Nailing Fin over nailable structural sheathing. Some face nailing may be required if nailable sheathing is not present.

GENERAL

- Wausau Siding Systems™ trim is designed to be installed blind nailed through the attached nailing fins and with clip to help complete a hidden fastener installation.
- Install the outside corners and trim first before beginning installation of the siding products.
- Start by carefully removing trim from protective shipping packaging. Do not cut packaging on face of material.
- Avoid drawing trim against uneven or out of plane surfaces. Shim as necessary to ensure acceptable trim joints.

CUTTING

- It is recommended to cut trim with nailing fin face up utilizing power compound miter saws. Align edge of trim without attached fin against fence.
- If cutting by circular saw, it is recommended to cut face down. Be careful to avoid marring the finished surfaces.

SEALING

- Paint and/or seal ALL cut ends and edges of trim. (see figure 10a)
- Cotton swabs are recommended for touch-up painting on the finished face of products.

NAILING REQUIREMENTS

- Hand-driven galvanized roofing nails are recommended for installing trim with nailing fin.
- When attaching siding, avoid nailing closer than 1-1/2" from the end of the board so the power nail does not penetrate the nail fin of WSS trims.
- When installing trim over up to 1" rigid foam sheathing, care must be taken not to drive nails so hard as to compress the foam and distort the fin.

INSTALLATION

- Start by installing clips against the item to be trimmed out.
- Nail through clips into substrate.

> Note: NOT RECOMMENDED to use pneumatic roofing, or siding nail guns to install trim with nailing fin.

- Place clips no greater than 16" o.c.
- Measure and cut the trim to length. It is recommended to trim windows and openings as shown in diagram. (see figure 7c)




- Put the trim up on the wall with the edge of the trim with the kerf and dado towards the clips.

Figure 7c

- Align and slide the clip into the kerf and dado side of the trim. Push trim tight to item to be trimmed out.
- Hold trim with nailing fin against the wall, level, plumb and set it to the correct height before nailing through fin.


- Fasten EVERY 3RD HOLE. (see figure 7b)

- DO NOT OVERDRIVE NAILS. Nail head should set firmly to face of fin, but not be overdriven to distort or damage the fin surface.
- Shim at trim intersections as necessary to establish flush and tight joints.

FASCIA APPLICATION

These steps show the correct procedure for installing roof edge products to facilitate easy installation of the LP® SmartSide® Soffit and Fascia.

STEP 1: Hold the metal roof edge up to the eave edge of the roof line. Keep the top edge of the metal on the plane of the sheathing, slide the metal roof edge up or down the roof until a 5/8" measurement is achieved perpendicularly out from the fascia to the inside of the bend in the metal roof edge. Continue to hold it in this position.

STEP 2: While in the same position as Step 1, mark the top edge of the metal roof edge on the roof sheathing.

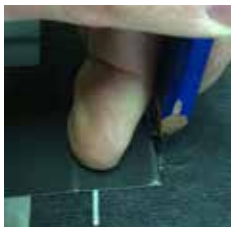
STEP 3: Take the distance of the mark measured from the edge of the roof in Step 2, and mark the opposite of the eave. Snap a chalk line from end to end for reference.

STEP 4: Install the metal roof edge by aligning to the chalk line and fasten. Be sure excess material over hangs past the ends of the roof corners, gable or eave intersection. This will be trimmed later when the metal roof edge is installed on the gable ends or around the corners (hip roof lines).

STEP 5: For hip roof lines, repeat steps 1 – 3 for the other sides of the roof system and then skip to Step10.

STEP 6: Install roofing underlayment of choice.

STEP 7: For gable ends, hold the metal roof edge up to the gable edge of the roof line. Keep the top edge of the metal roof edge on the plane of the sheathing. Slide the metal roof edge in or out from the edge of the roof until a 5/8" measurement is achieved perpendicularly from the fascia to the inside of the bend in the metal roof edge. Continue to hold it in this position.



STEP 8: While holding it in position, mark the edge of the metal roof edge onto the roof underlayment.

STEP 9: Measure and mark the distance from the edge of the roof at the top end of the gable and snap a chalk line from the bottom to the top.

Note: The metal roof edge on the eave has been left long, to be trimmed later. (Approximately 2")

STEP 10: Trim the metal roof edge on the eave so that it fits with the metal roof edge going up the gable or around the corner for hip roof lines. Leave the piece that you installing longer than necessary.(Approximately 2") This will need to be trimmed AFTER the LP® SmartSide® fascia is installed.

STEP 11: Install the metal drip edge up the gable end using the chalk line as a reference and fasten. Be sure to overhang excess material. (Approximately 2") This will need to be trimmed AFTER the LP SmartSide fascia is installed.

STEP 12: Lift up on the metal roof edge on the eave end and slide your ruler up until it bumps the top of the inside. Record the measurement where the bottom of the sub-fascia ends.

STEP 13: Measure and mark the LP® SmartSide® fascia at the recorded measurement from Step 12. It is important that this measurement be pulled from the dado as shown. Rip the fascia to width, and use Diamond Kote™ touch-up paint on all cut edges.

STEP 14: Cut the LP SmartSide fascia to length and paint all cut edges. Start by installing the fascia on the eaves first by lifting up on the metal roof edge and slipping the fascia behind the metal. Fasten the fascia every 24" o.c. maximum. Use Diamond Kote touch-up paint on all face nails.

Note: Touch-up paint instructions are available in the Diamond Kote Care and Maintenance Guide and on our YouTube Video: Diamond Kote | Touch-Up Paint Best Practices

STEP 15: Install the gable end fascia or other sides of a hip roof. Finish by trimming the excess metal roof edge off of the corners.

STEP 16: After finishing the fascia, the next step is adding soffit. Make sure to view our instructional YouTube Video: Diamond Kote | LP SmartSide Soffit and Fascia Installation

SOFFIT APPLICATION

GENERAL

- Architectural Collection Vented Cut-To-Width (CTW) soffit provides a minimum of 10 square inches per lineal foot of ventilation.
- Recommended spans for open and closed soffits are given in Table 1. The recommendations in Table 1 for open soffits also apply to combined roof/ceiling construction. Panels are assumed continuous over two or more spans with the long dimension or strength axis across supports for both applications.
- In open and closed soffit construction, protect panel edges against direct exposure to the weather with LP® SmartSide® trim and fascia. Apply LP SmartSide soffit in a manner that prevents moisture intrusion and water build-up. All openings, other than the vents, must be sealed, caulked, and/or flashed.
- SOFFITS MUST NOT BE IN DIRECT CONTACT WITH MASONRY, CONCRETE, BRICK, STONE, STUCCO OR MORTAR.

INSTALLATION

TABLE 1

LP SmartSide CTW, Vented CTW and Soffit Panels (Long Dimension Across Supports)

Maximum Span (inches) All Edges Supported	Nominal Panel Thickness	Nail Size + Type
24	Precision Series 38 Series SmartSide soffit	6d (0.099") nonstaining, hot-dipped galvanized box
24	Precision Series 76 and 190 Series SmartSide soffit	8d (0.113") nonstaining, hot-dipped galvanized box
24	Foundations 76 Series LP SmartSide soffit	8d (0.113") nonstaining, hot-dipped galvanized box

- Panels must be installed perpendicular to supports.
- Minimum size framing should be nominal 2" x 4"
- All panel edges must be supported or backed by solid framing.
- Consult your local building code for open soffit applications.

INSTALLATION CONTINUED

- Space nails 6" o.c. at panel edges and 12" o.c. at intermediate supports. DO NOT USE STAPLES.
- When installing the Architectural Collection vented soffit, avoid cutting through the vented areas. If it cannot be avoided, take special precautions to avoid damage to the spokes within the vent.
- Avoid diagonal cuts through the vented areas. If necessary all soffit edges must be supported or backed by solid framing. Use construction adhesive to attach spokes within the cut area of the vent to solid framing.
- Exhaust ducts shall terminate not less than 3' in any direction from openings in vented soffit. Refer to your local code.
- The spokes within the vent may warp slightly during acclimation to the local environment. This condition is temporary and the spokes will straighten.
- Factory manufactured Cut-To-Width soffit is approved for use in closed soffit applications.
- Field prepared Cut-To-Width soffit should comply with local building codes.
- Gap 3/16" plus 8' thickness of H-Molding web equals 1/4".
- Space and caulk the end and edge joints 1/8" when using 8' soffit.
- Space and caulk the end and edge joints 3/16" when using 16' soffit.

LP SmartSide Soffit products are not designed for and are not suitable for use as siding or trim other than Smooth Foundations Soffit.

GAPS + SEALANTS

- Seal all gaps with a high-quality, non-hardening, paintable sealant. Follow the sealant manufacturer's instructions for application or go to the caulking video which is on our Diamond Kote YouTube Channel.

FIGURE 3: VENTED SOFFIT

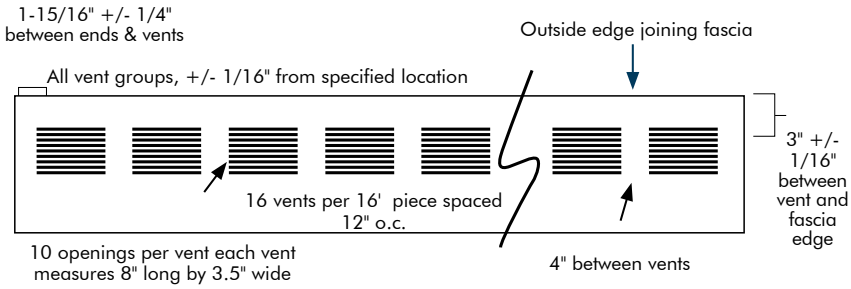


FIGURE 4: 12 IN. CUT TO WIDTH SOFFIT FRAMING DIAGRAM

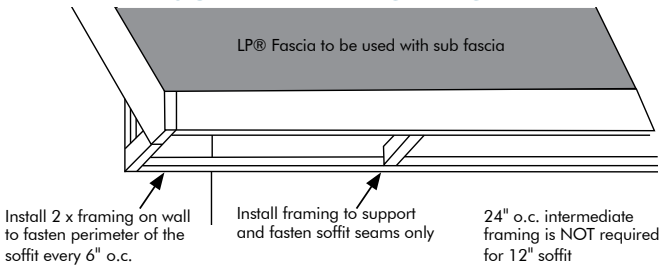


FIGURE 5: 16 IN. AND 24 IN. CUT TO WIDTH SOFFIT FRAMING DIAGRAM

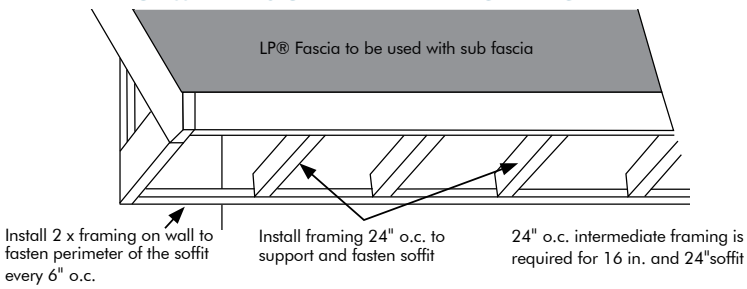


FIGURE 6: 12 IN. CUT TO WIDTH SOFFIT NAILING DIAGRAM

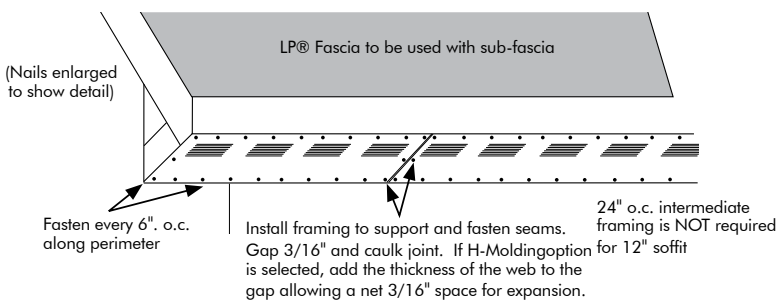
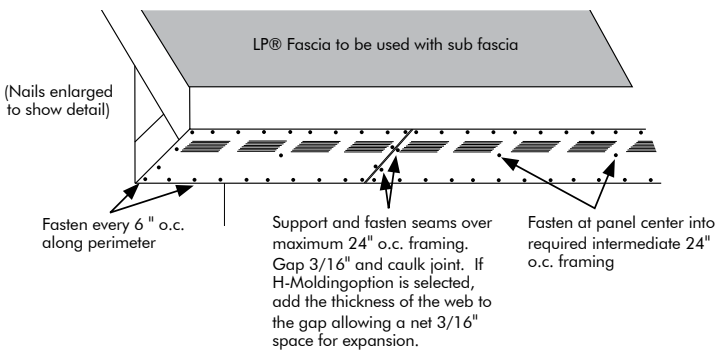


FIGURE 7: 16 IN. + 24 IN. CUT TO WIDTH NAILING FRAMING DIAGRAM



WAUSAU SIDING SYSTEMS™

5/50 YEAR LIMITED WARRANTY

The siding, shakes, shapes and trim components that make up the Wausau Siding Systems™ are warranted to the original purchaser for a period of fifty (50) years from the date of purchase. With normal care when subject to usual weather conditions, proper handling and installation of the product is warranted not to:

- Separate at the joints (not to exceed .125")
- Separate from the nailing flange
- Separate from the spline

LIMITATIONS

The product is not warranted against damage of any kind caused by air pollution, mildew, ice or water, or exposure to harmful chemicals or normal weathering resulting from exposure to the elements.

In the event the Wausau Siding Systems™ product is found defective of the specified conditions listed above, Wausau Siding Systems™ will:

1. Provide replacement material for the areas validated as defective of the specified conditions listed above.

2. During the first five (5) years following the date of purchase, Wausau Siding Systems™ will provide labor reimbursement for the re-installation of the product limited to a total cost of not more than $2.00 per square foot for siding and $4.00 per lineal foot for trim.

3. From year six (6) through year fifty (50) material only will be provided for the areas validated as defective of the specified conditions listed above. Replacement of the product must occur within the Warranty period based on the date of purchase and only if the Wausau Siding Systems™ product has been properly stored, installed and handled according to label directions and under normal conditions and exposure.

This warranty does not cover defects or damage caused by acts of God, such as: tornado, hail, hurricane, earthquake, flood, lightning, fire, ice or water, damage caused by foreign objects, any abuse or misuse, improper handling during storage and transportation, improper installation or damage caused by being installed.

This warranty does not cover cracking, peeling or blistering resulting from: the product becoming wet prior to installation, moisture exposure to the uncoated surfaces of the product after installation, improper ventilation, expansion and contraction, breakdown of the underlying substrate, surface deterioration due to pollution, abrasion, misuse, vandalism, mildew accumulation, or any introduction of moisture into the product prior to and during the installation of the product.

WARRANTY IS FOR THE MANUFACTURED COMPONENTS ONLY AND APPLIES ONLY IF THE PRODUCT IS USED FOR THE SPECIFIC PURPOSE FOR WHICH IT IS INTENDED. WAUSAU SUPPLY COMPANY MAKES NO WARRANTY AS TO THE SUBSTRATE, PURCHASER'S SOLE RECOURSE THEREON BEING WITH THE MANUFACTURER.

Wausau Supply Company's liability is limited to replacement material only (as purchased) found to be defective. After the first five (5) years Wausau Supply Company shall have no liability of materials for applications of any replacement product – all of which are specifically excluded. This Limited Warranty is the sole liability of Wausau Supply Company and is issued and accepted in lieu of any and all other expressed or implied warranties and it obligations hereunder are in lieu of any direct or indirect incidental, special or consequential damages of any kind, including any third party claims. Wausau Supply Company's liability being limited to the amount paid for the product.

No warranties, whether express or implied, will apply after the limited warranty period has expired. This warranty coverage terminates upon the original owner's sale or other transfer of the manufactured product to another party.

A claim under this warranty shall only be effective if forwarded by certified mail or email, return-receipt requested to:

Wausau Supply Company
PO Box 296
Wausau, WI 54402-0296
Attention: Warranty Dept.

Effective Date:
November 1st, 2014

wausausidingsystems.com

For further technical assistance please call 800.236.1528 ext.15318

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