ZIPsystem™

SHEATHING & TAPE

INSTALLATION

ZIPSYSTEM.COM

ATTENTION: This installation guide is intended to provide general information for the designer and end user. The following guidelines will help you safely and properly install the ZIP System® roof and wall sheathing. We urge you, and anyone installing this product, to read these guidelines in order to minimize any risk of safety hazards and to prevent voiding any applicable warranties. This manual is a general installation guide and does not cover every installation condition. Proper installation shall be deemed to mean the most restrictive requirement specified by Huber Engineered Woods (HEW), local building code, engineer or architect of record or other authority having jurisdiction. You are fully and solely responsible for all safety requirements and code compliance. For additional information contact Huber Engineered Woods LLC.

HUBER **ENGINEERED WOODS**

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Charlotte, NC 28262
Phone: 800.933.9220 // Fax: 704.547.9228

SAFETY GUIDELINES: Follow all OSHA regulations and any other safety guidelines and safety practices during installation and construction.

✓ Use approved safety belts and/or harnesses or other fall protection equipment.

✓ Install ZIP System® panels and tape only in dry conditions and on dry surfaces. Do not install in rain, snow, frost or other slippery conditions.

✓ Wear rubber-soled or other high-traction footwear while installing ZIP System® sheathing in a roof application. Do not wear footwear with worn soles or heels.

✓ Ensure the roofing surface is free from oil, chemicals, sawdust, dirt, tools, electric cords, air hoses, clothing and anything else that might create a tripping hazard.

✓ Install temporary toe boards along the ZIP System® sheathing roof surface.

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ZIP SYSTEM® SHEATHING // OVERVIEW

ZIP System® sheathing panels are oriented strand board (OSB), wood structural panels with built-in protective overlays that eliminate the need for building wrap or roofing felt. Install the panels, tape the seams with ZIP System™ flashing tape, and the building is rough dried-in.

When used on a wall, ZIP System® sheathing functions as a combination wall sheathing, code-recognized water-resistive and air barrier. The sheathing panel seams are sealed with ZIP System™ flashing tape, protecting the wall from water intrusion. When ZIP System® sheathing is utilized for roof applications, felt underlayment is not required. In wall and roof coverings system requiring multiple layers of water-resistive barriers or underlayment, ZIP System® sheathing and flashing tape is intended to replace only the first layer.

ZIP System® sheathing can be used with a range of exterior claddings and roof coverings which include brick, vinyl, stone, wood fiber cement, wood and cedar shakes, traditional hard coat stucco and EIFS* applications. Approved roof coverings include asphalt-fiberglass shingles, metal tiles and panels, clay and concrete tiles, slate and slate- type shingles and wood shakes and shingles.

Follow all cladding and roof covering manufacturer's installation instructions. ZIP System® sheathing may be used for roofs and walls in Type V construction, in Type III construction as roof sheathing only, and other construction permitted under the International Residential Code.

*EIFS should only be mechanically fastened over ZIP System® sheathing. Adhesively attached EIFS will void the 30-year limited ZIP System® warranty.

ZIP SYSTEM® SHEATHING // NOTES & LIMITATIONS

🚫 When used on roof slopes less than 2:12, the DOC PS2 compliant ZIP System® sheathing panels are code recognized to satisfy the structural decking only.

🚫 Do not use abutted against general stone or masonry without providing a minimum of a 1/2" gap.

🚫 Do not install ZIP System™ flashing tape or stretch tape in temperatures less than 0° Fahrenheit.

🚫 ZIP System® products are not recommended for manufactured housing applications that are built under a federal building code administered by the U.S. Department of Housing and Urban Development (HUD).

🚫 Do not use ZIP System™ flashing tape or stretch tape to permanently seal around circular roof projections (plumbing vents, pipes, etc.)

🚫 ZIP System® sheathing should be covered with the finished roof covering or exterior cladding within 180 days of installation.

🚫 Finished roof and exterior cladding products should be installed per the manufacturer's installation instructions.

ZIP SYSTEM® SHEATHING // NOTES & LIMITATIONS

🚫 When original roofing or claddings are removed, the roof or wall must be covered with an additional roofing underlayment or water resistive barrier prior to installation of new roofing or cladding.

🚫 In cladding systems requiring multiple layers of water-resistive barriers, like traditional hard-coat stucco or adhered stone, ZIP System® sheathing is intended to replace only the first layer; therefore, at least one layer of mechanically fastened water resistive barrier must be installed over the ZIP System® sheathing.

🚫 ZIP System™ flashing tape is not recognized as a replacement for rigid, metal or other through wall flashings prescribed by others. Where rigid flashings are present, ZIP System™ flashing tape can be used as a transition from the ZIP System® panel surface to the rigid flashing.

ZIP SYSTEM® SHEATHING // NOTES & LIMITATIONS

WET BLOWN CELLULOSE INSULATION

In addition to following manufacturer installation instructions, we recommend a maximum moisture content of the cellulose of less than 25% measured at the inside surface of the ZIP System® panel before closing the wall cavity.

SECONDARY COATINGS

Do not apply secondary coatings or treatments to ZIP System® sheathing panels except for the following:

1 Field applied water-soluble borate insecticide or fungicide treatments applied to the non-overlay side of the panel. See technical tip, "Termite Treatments on ZIP System® sheathing," on Huberwood.com for more information.

2 Permeable laminated radiant barrier foil or paint. For a radiant barrier foil or coating to be considered permeable, it must have an applied permeance of five perms or greater as tested by the ASTM E 96 wet cup standard. For a radiant foil, the permeance evaluation would include any adhesive and/or backer used to laminate a foil. For a radiant paint/coating, the permeance evaluation should be conducted at the applied thickness of the paint/coating.

ZIP SYSTEM® SHEATHING // STORAGE & HANDLING

✓ Set panel stack on three supports (stickers) to keep off the ground.

✓ Outdoors, cover panels loosely with waterproof protective material.

✓ Anchor covers on top of the stack but keep away from sides and bottom to assure good air circulation.

✓ In high moisture environments, cut banding on the panel stack to prevent edge damage.

✓ ZIP System™ flashing tape and stretch tape are pressure sensitive tapes that must be rolled with any rubber-faced roller in order to achieve maximum bond to the panel.

✓ Exterior foam insulation (XPS, EPS ect.) can be mechanically installed (button caps, staples ect.) over ZIP System® sheathing. Do not adhesively attach.

ZIP SYSTEM® SHEATHING // PANEL SIZES

The green ZIP System sheathing denotes a 7/16-inch panel while the sienna ZIP System sheathing denotes either a 1/2-inch or 5/8-inch panel. Both the green and the sienna can be used interchangeably for the wall or roof.

ZIP System® sheathing panels are available in 4' x 8' sheets with self-spacing edge profiles and tongue and groove edge profile (5/8 only). ZIP System® panels are Exposure 1 rated and are available in the following span ratings and performance categories.

24/16, Structural 1, 7/16 PERF CAT

Available lengths in 7/16 thickness:
- 4' x 8'
- 4' x 9'
- 4' x 10'

32/16, Structural1, 1/2 PERF CAT

Available lengths in 1/2 thickness:
- 4' x 8'

40/20, Structural 1, 5/8 PERF CAT

Available lengths in 5/8 thickness:
- 4' x 8'

Longer length panels (greater than 8′ in length) are only available for wall applications.

ZIP SYSTEM® SHEATHING // TAPE SIZES

ZIP System™ flashing tape rolls are available in 3-3/4, 6, 9 and 12-inch widths. Also available in a vapor permeable option*.

ZIP System™ stretch tape rolls are available in 3, 6 and 10-inch widths.

*Vapor Permeable option only available in 3-3/4-inch widths

ZIP SYSTEM® SHEATHING // FASTENING

ZIP System® sheathing <u>circles </u>denote 16 inch o.c. framing and <u>squares </u>denote 24 inch o.c. framing.

SQUARE = 24 inch o.c. framing

CIRCLES = 16 inch o.c. framing
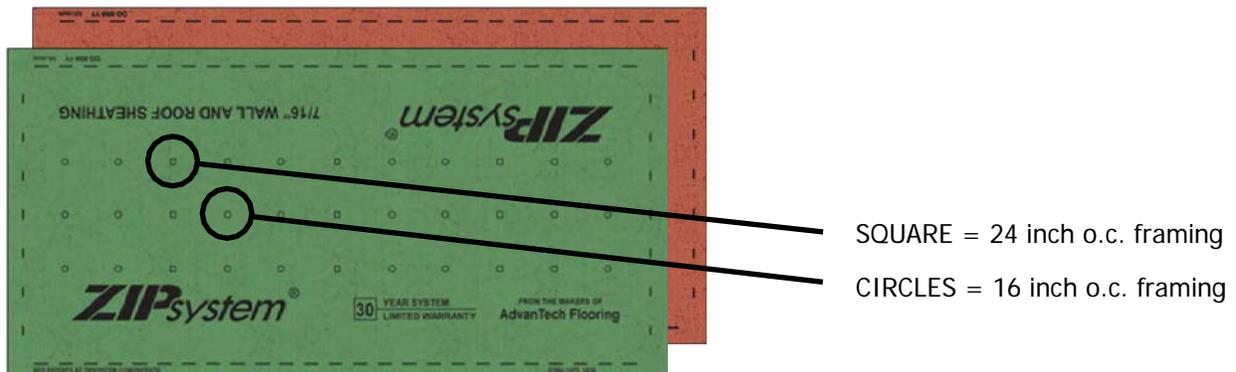
ZIP SYSTEM® SHEATHING
// GENERAL INFORMATION & COMPATIBILITY

FASTENERS

ZIP System® sheathing must be installed with code-approved fasteners and by code approved methods. For information on overdriven fasteners please visit the Tech Tip, "Fasteners FAQs regarding ZIP System Sheathing" at huberwood.com

ALLOWABLE SHEAR CAPACITIES

ZIP System® sheathing are DOC PS2 compliant wood structural panels (WSP). Allowable shear capacities for WSPs can be found in the American Wood Council – Special Design Provisions for Wind and Seismic Table 4.3a.

COMPATIBLE SUBSTRATES

ZIP System™ flashing tape and stretch tape are compatible with dimensional lumber (treated and untreated), OSB, plywood, house-wraps, PVC, vinyl and metal substrates. Please note, all substrates must be dry to the touch and free of any dirt or debris at the time of tape installation.

SEALANTS

For sealant compatibility with ZIP System® sheathing, ZIP System™ flashing tape, stretch tape or liquid flash please use a polyurethane, butyl or 100% silicone sealant or contact the Huber Technical Department at 1.800.933.220 ext 2716.

ZIP SYSTEM® SHEATHING
// GENERAL INFORMATION & COMPATIBILITY

FLASHINGS - TAPES

ZIP System™ flashing tape must be used where two ZIP System® panels come together to create a seam or panel joint at inside corners, outside corners and in the same plane; however, other code approved flashing tapes that satisfy AAMA-711 or AC-148 can be used to flash penetrations and fenestrations.

FLASHINGS – FLUID APPLIED

ZIP System™ liquid flash can be used in lieu of ZIP System™ flashing tape at inside corners, outside corners and in the same plane; however, other code approved liquid applied flashing membranes that satisfy AAMA- 714 can be used to flash penetrations and fenestrations. When using fluid applied flashing products over 3-3/4″ ZIP System™ flashing tape refer to the Tech Tip, "Compatibility of ZIP System Tape with ZIP System Liquid Flash"*.

WRINKLES IN THE TAPE

Rolling the tape during installation will significantly reduce the chance of tape wrinkling occurring. If wrinkles occur in the ZIP System™ flashing tape, there are two options. First, try to roll the wrinkles out with a rubber-headed roller. This should help eliminate any wrinkles or fish mouths. If rolling the tape does not remove fish mouths, remove that section(s) of tape and install a new piece of tape. Ensure the new tape overlaps the existing tape by three inches. Roll the tape.

*ZIP System™ flashing tape should not be installed over ZIP System™ liquid flash.

ZIP SYSTEM® SHEATHING
// GENERAL INFORMATION & COMPATIBILITY

PARAPET WALL TERMINATION

ZIP System® sheathing used as parapet wall sheathing is compatible with TPO and EPDM built-up roofing membranes. It is recommended to transition from the top of the membrane to the surface of ZIP System® sheathing with a piece of ZIP System™ flashing tape or liquid flash. Refer to roofing membrane manufacturer's installation instructions for proper installation requirements.

Please note, a polyurethane or solvent based adhesive should be used when adhering the built-up membrane to ZIP System® sheathing, and all panel seams should be taped prior to installing the membrane over ZIP System® sheathing.

TOOLS

Common
- Pneumatic nail gun
- Framing hammer
- Air compressor
- Speed square
- Tape Roller
- PPE

Recommended
- Flush nail collars
- Air line regulators
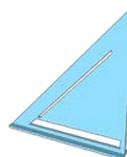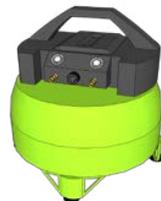
ZIP SYSTEM® WALL SHEATHING
// GENERAL INSTALLATION - WALL

The following installation steps are presented as a general outline of the installation process. These are manufacturer installation recommendations – please visit Huberwood.com for a library of flashing and installation details. You are fully and solely responsible for all safety requirements. Good construction and safety practices should always be followed.

ZIP SYSTEM® WALL SHEATHING
// PANEL ORIENTATION AND SPACING

Install ZIP System® sheathing panels positioned with the water-resistive barrier facing towards the exterior. The panels may be installed with the long side of the panel oriented either horizontally or vertically to the framing members.

Walls that are designed to resist lateral shear forces and sheathed with wood structural panels typically require solid framing or blocking behind all panel edges. If oriented horizontally, block horizontal joints if wall is designed for bracing or as a shear wall.

ZIP SYSTEM® WALL SHEATHING
// PANEL ORIENTATION AND SPACING

- 1/8" spacing between square edges of all adjacent panels is recommended in accordance with industry standards for wood sheathing installation.
- The unique edge profile is designed to accommodate incremental panel expansion and does not require manual gapping along the 8' edges.
- Maintain 1/8" space where 8' panel edges meet 4' panel edges. Unique edge profile does not provide the full 1/8" recommended space in this situation.
- Maintain 1/8" space where 4' edges meet. The unique edge profile is only on the 8' edges.
- For information on vertical panel installations, go here to learn more.

ZIP SYSTEM® WALL SHEATHING / / FASTENING

Fasten the panels to the framing members with code approved fasteners. Space fasteners a minimum 6" o.c. along supported edges and 12" o.c. at intermediate supports unless otherwise specified by local code or the designer of record. It's the responsibility of the general contractor to verify proper fastener type and spacing prior to installation of the panels. Apply fasteners 3/8" from panel edges and corners.

Please note, fasteners used to install ZIP System® sheathing are not required by HEW to be ring-shank, galvanized or stainless steel unless otherwise stated by the local building code or designer of record.

ZIP SYSTEM® WALL SHEATHING // TAPING

Apply ZIP System™ flashing tape after all ZIP System® sheathing panels are fully fastened to wall-framing members. ZIP System™ flashing tape is a contact tape that requires pressure for an adequate seal.

REMEMBER TO ALWAYS:

✓ Only ZIP System™ flashing tape should be used to seal the seams of ZIP System® panels, including inside and outside corners.

✓ Ensure that the panel surface is dry and free of sawdust and dirt prior to taping.

✓ Ensure that the tape is centered over the seam within +/- 1/2" to provide adequate coverage

✓ Wherever tape splices occur at a horizontal or vertical seam, create an overlapping splice of at least 3".

✓ At T-joints, tape pieces should overlap by at least 1".

✓ Tape over any areas of the panel that are damaged during construction.

✓ Use the ZIP System® tape gun or roller to apply pressure to the tape and smooth out any wrinkles.

ZIP SYSTEM® WALL SHEATHING // TAPING

When taping inside corner seams, it is helpful to cut a manageable length of ZIP System™ flashing tape and hold the ends in the middle using only your index fingers and thumbs. Slightly pulling both ends of the tape causes the tape edges to naturally curl inward. With the tape in tension, place it in the inside corner. Repeat as you go up the full height of the wall. For optimal air leakage reduction, all non-taped edges of the panels can be caulked, gasketed or sealed with a weather-stripping material. Take special care to remove any voids and/or trapped air at splice areas and T-joints.

3-INCH OVERLAP

1-INCH OVERLAP
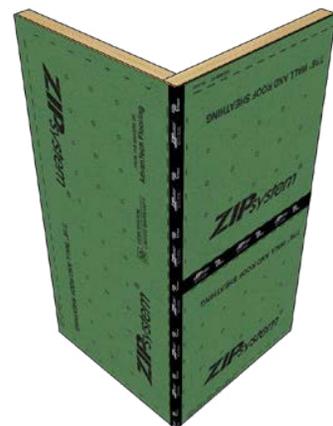
ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

PIPES // ZIP SYSTEM™ FLASHING TAPE AROUND BOOT
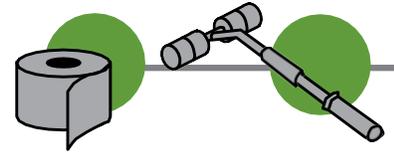
STEP 1: Insert the boot over the penetration.

STEP 2: (Optional) Install ZIP System™ flashing tape on the bottom of the boot to helps to minimize air leakage.

STEP 3: Place of piece of ZIP System™ flashing tape on each of the boot jambs.

STEP 4: Place a piece of tape on the head of the boot and roll all pieces of tape.

STEP 1

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

PIPES // ZIP SYSTEM™ STRETCH TAPE

STEP 1: Starting from the top, center a piece of ZIP System™ stretch tape so that the tape can be pulled down on either side of the pipe.

STEP 2: Pull the tape together until it can meet in the middle of the pipe. The overlap should take place on the bottom of the pipe. Roll the tape.
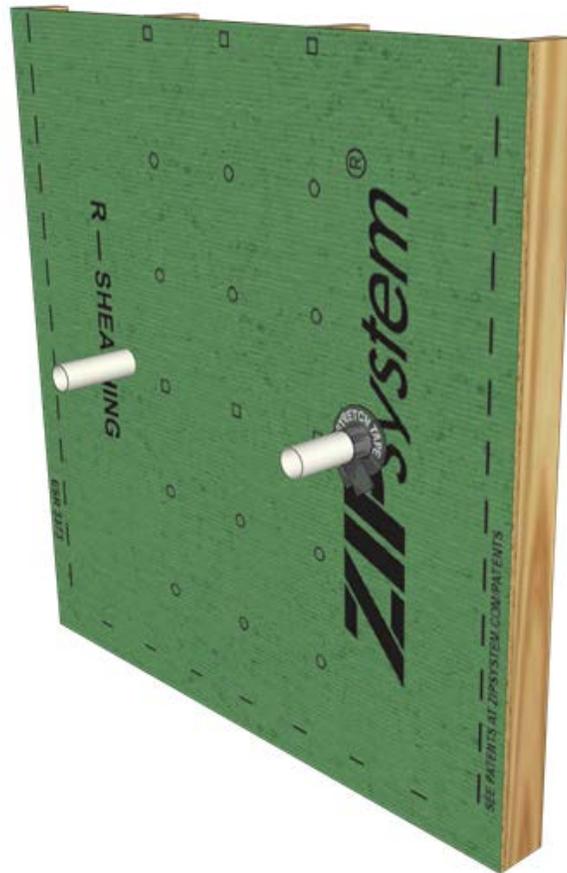
ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // FLANGED WINDOW

STEP 1: Install a piece of ZIP System™ stretch tape and install shims per window manufacturer's installation guidelines.

STEP 2: Apply sealant on the back side of the window flange and set into the rough opening.

STEP 1
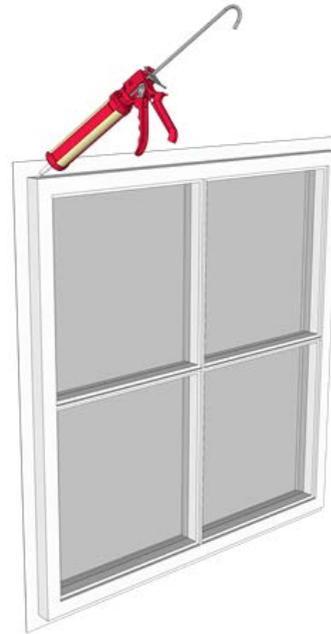
STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // FLANGED WINDOW
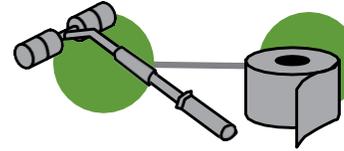
STEP 3: Install ZIP System™ flashing tape on the window jambs.

STEP 4: Install ZIP System™ flashing tape at head of window. When a "T-joint" occurs in the head of the window. Ensure the vertical panel seam overlaps onto the head flashing. For alternative details please see page 26.

STEP 3

STEP 4

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // FLANGED WINDOW
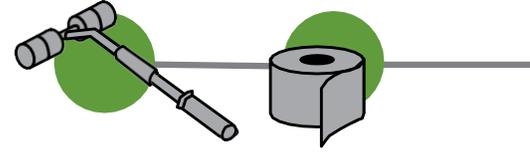
STEP 5: Install head flashing above window. Optional for self-flashed J-channel windows. Tape top head of flashing. From the back side of the window, install window/door foam per the window manufacturer's installation guidelines. Roll all tape.

STEP 5

ZIP SYSTEM® WALL SHEATHING // T-Joint Alternative

3-3/4-inch ZIP System™ tape

In the event the vertical panel seam has been taped prior to the window being installed. Tape the head of the window with 3-3/4-inch ZIP System™ flashing tape. Where the vertical panel seam intersects the head flashing install a "hat" piece of 3-3/4-inch ZIP System™ flashing tape extending 1" on either side of the vertical seam tape.

6-inch ZIP System™ flashing tape

In the event the vertical panel seam has been taped prior to the window being installed. Tape the head of the window with 6-inch or wider ZIP System™ flashing tape.

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // STORE FRONT WINDOW
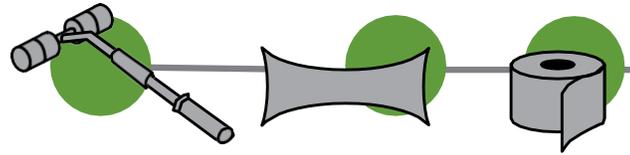
STEP 1: Install a piece of ZIP System™ stretch tape in the window sill and then install ZIP System™ flashing tape in the jambs of the rough opening.

STEP 2: Install a piece of ZIP System™ stretch tape in the head of the rough opening overlapping the jamb flashing.
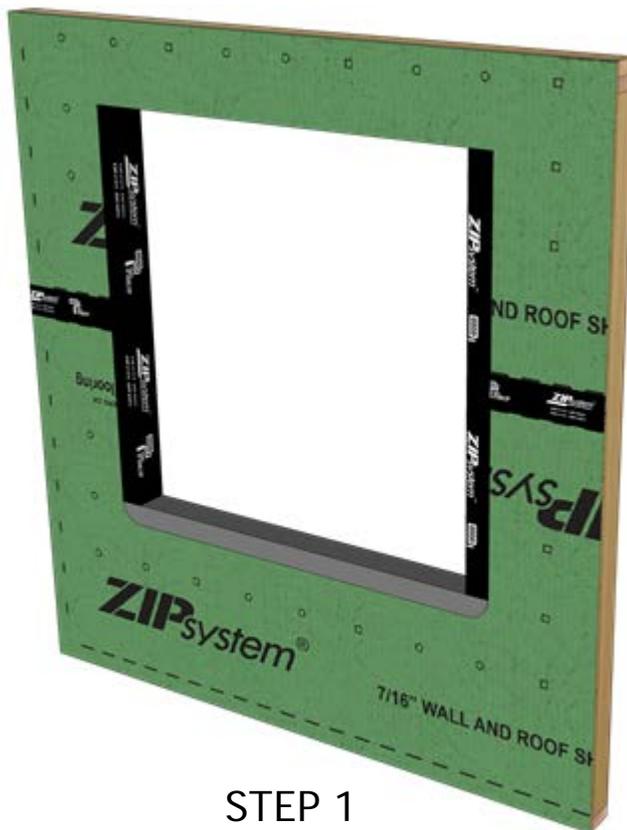
STEP 1   STEP 2
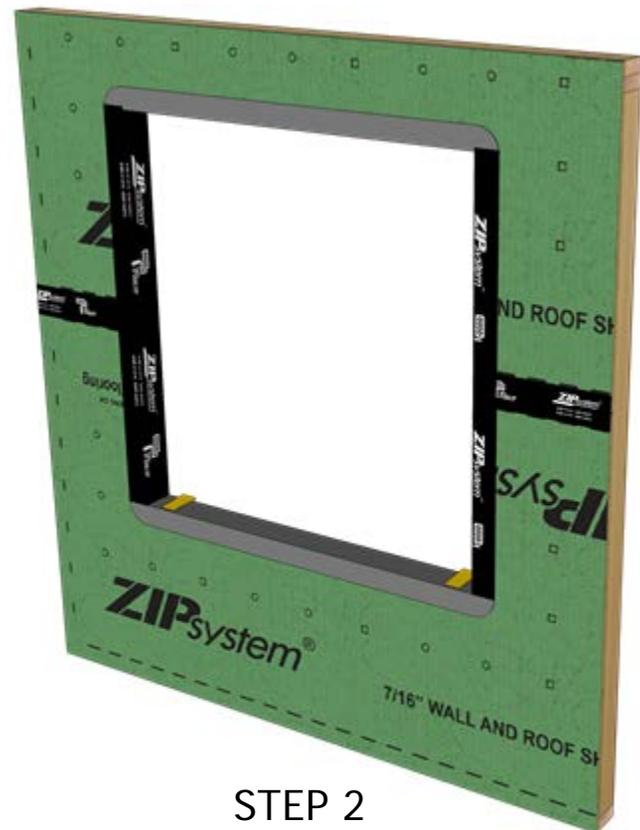
ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // STORE FRONT WINDOW

STEP 3: Secure window in accordance to manufacturer's written instructions and insert a backer rod in between the gap of the rough opening and the window.

STEP 4: Flash window frame to rough opening in accordance with window manufacturer's instructions. ZIP System™ liquid flash is an option. Above window, install head flashing as shown on page 25.

STEP 3
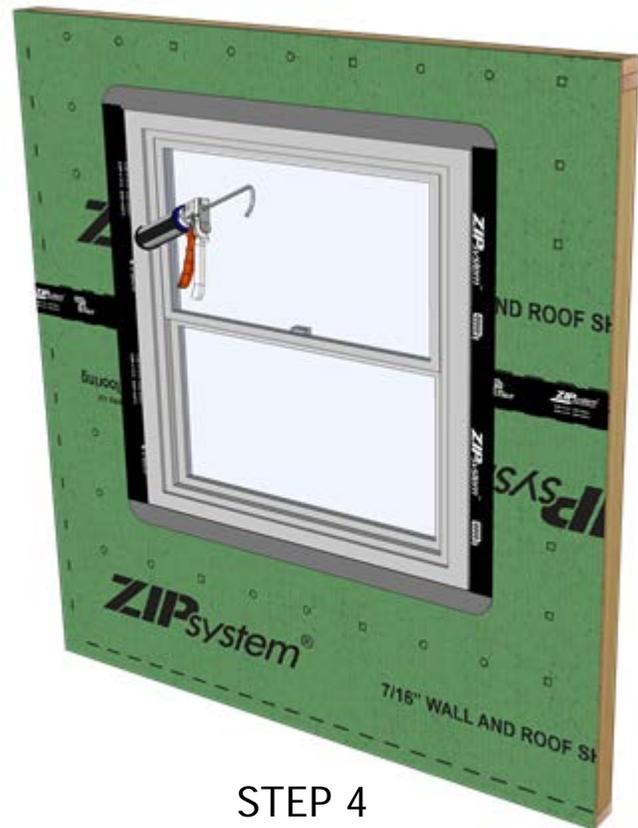
STEP 4

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // PICTURE FRAME WINDOW
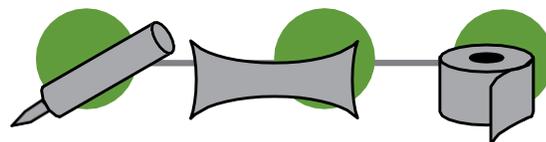
STEP 1: Install a bead of sealant between the 1x or 2x wood stud and the surface of the ZIP System® sheathing.

STEP 2: At the sill, install a piece of ZIP System™ tape over the bump out a minimum of 2 inches of the surface of ZIP System® sheathing. Install a piece of ZIP System™ stretch tape into the rough opening. Next, apply sealant on the back side of the window flange and set the window into the rough opening.

STEP 1

STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // PICTURE FRAME WINDOW
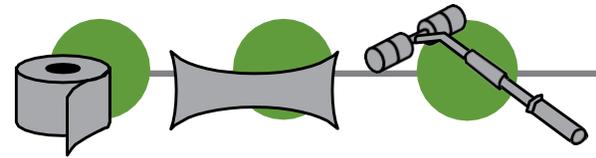
STEP 3: Install a piece of ZIP System™ tape over the window flange jamb and a minimum of 2 inches of the surface of ZIP System® sheathing.

STEP 4: Install a piece of ZIP System™ tape over the head of the window flange and over a minimum of 2 inches onto the sheathing. At the top corners of the picture frame window install a piece of ZIP System™ stretch tape. Above window, install head flashing by others as shown on page 25.

STEP 3

STEP 4

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // RECESSED WINDOW
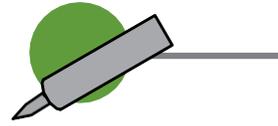
STEP 1: Install ZIP System™ liquid flash into the
rough opening.

STEP 2: Apply sealant on the back side of the
window flange and set into the rough opening
after the liquid flash has cured.

STEP 1

STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

WINDOW // RECESSED WINDOW
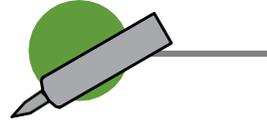
STEP 3: Secure window to manufacturer written instructions, install ZIP System™ liquid flash on to the flange of the window on to the existing liquid flash a minimum of 1 inch. Above window, install head flashing by others as shown on page 25.

STEP 3

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

DOOR // TYPICAL BRICK MOULD DOOR

STEP 1: Install ZIP System™ tape in the jambs of the rough opening. Install sealant as three separate beads in the threshold and minimum of 6-inch up the jambs.

STEP 2: Once the door has been installed into the rough opening in accordance to the manufacturer's installation guidance, apply a bead of sealant at molding/ZIP System® sheathing intersection.

STEP 1

STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

DOOR // TYPICAL BRICK MOULD DOOR

STEP 3:   Install head flashing above door and then tape top of head flashing.
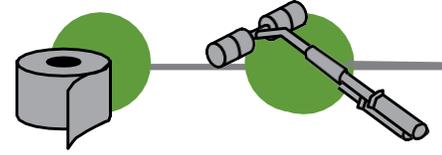
STEP 3

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

TRANSITIONS // FOUNDATION TRANSITION

SHEATHING <u>IN PLANE</u> WITH FOUNDATION WALL:
Hold the bottom edge of ZIP System® sheathing a minimum of ½ inch from the foundation wall.

SHEATHING <u>OUT OF PLANE</u> WITH FOUNDATION WALL:
Install ZIP System® sheathing in line with the bottom of the sill plate.
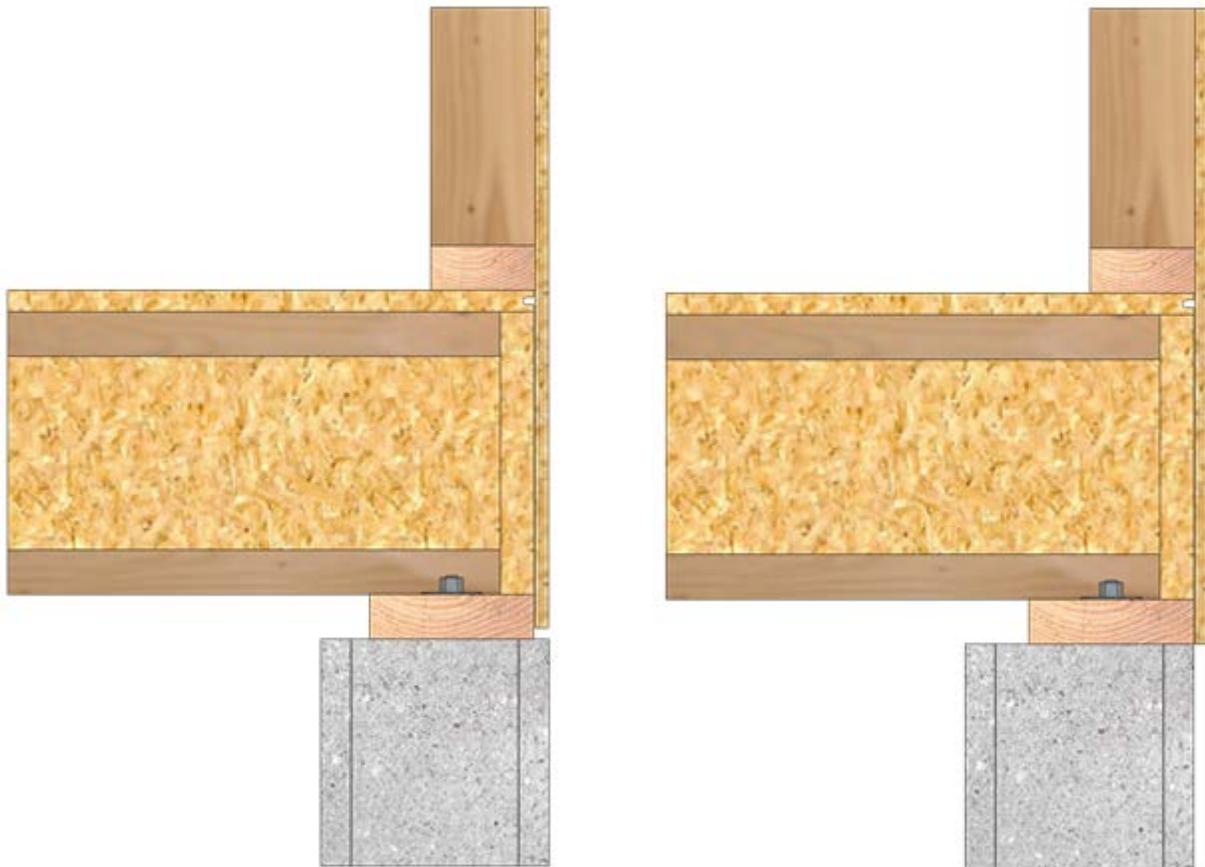
IN PLANE   OUT OF PLANE

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

TRANSITION // CONCRETE/MASONRY
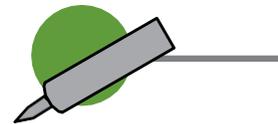
When terminating ZIP System® sheathing into a concrete/masonry wall, ensure the ZIP System® sheathing is held off the concrete/masonry wall by ½". Fill the gap with an appropriate size backer rod based on the actual size of the termination gap between the ZIP System® sheathing and the concrete/masonry wall. Use ZIP System™ liquid flash to flash from the ZIP System® sheathing to the concrete/masonry wall ensuring a minimum of 1" of ZIP System™ liquid flash is adhered on either side of the joint.

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

STRAPPING

Tape the ZIP System® sheathing panel edges prior to installing strapping.
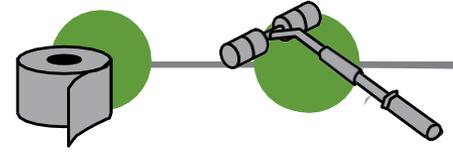
ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

CLADDING // LAPPED
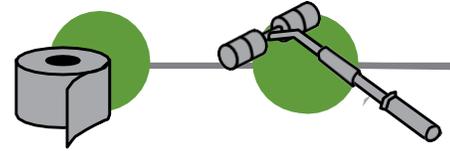
STEP 1: Tape top edge of drip edge back to the surface of ZIP System® sheathing. Install bottom wall flashing by other in accordance with designer of record or local build code.

STEP 2: Install lapped siding in accordance to siding manufacturer's written instructions.

STEP 1   STEP 2
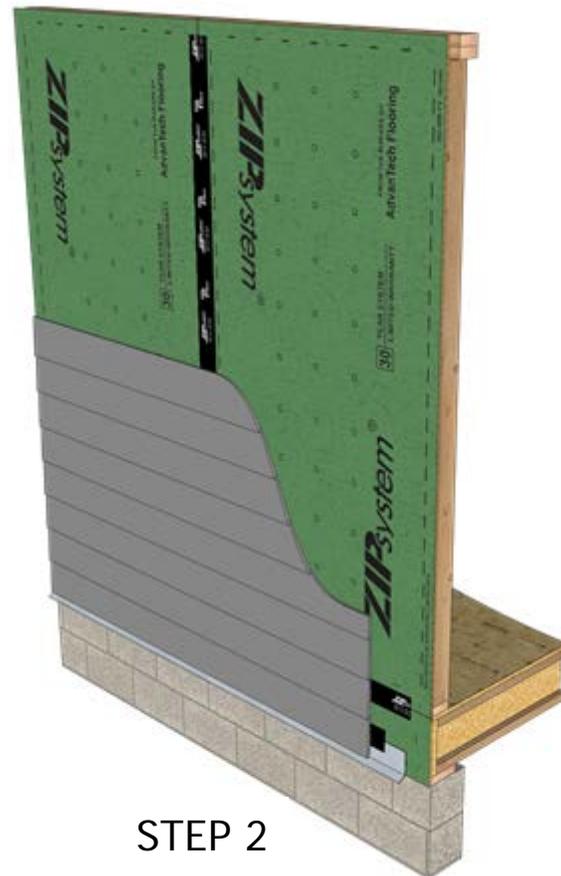
ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

CLADDING // BRICK
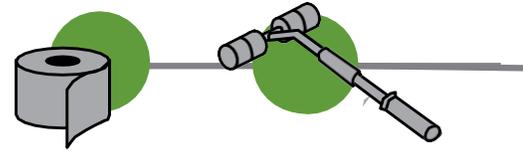
STEP 1: Tape the top edge of the mason flashing back to the ZIP System® sheathing. Install brick ties in accordance with local building code and brick tie manufacturer's written instructions.

STEP 2: Install brick veneer with a minimum of a 1-inch air space per the local building code.

STEP 1

STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

CLADDING // STUCCO
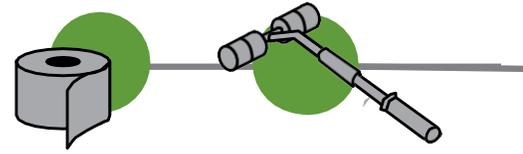
STEP 1: Tape top edge of the weep screen flashing back to the ZIP System® sheathing. Install a mechanically fastened water resistive barrier equivalent to a Grade D felt paper after all ZIP System® sheathing panel seams have been taped and rolled.

STEP 2: Install wire mess, scratch coat, brown and finish in accordance to stucco manufacturer's written instructions. Install expansion joints as needed.
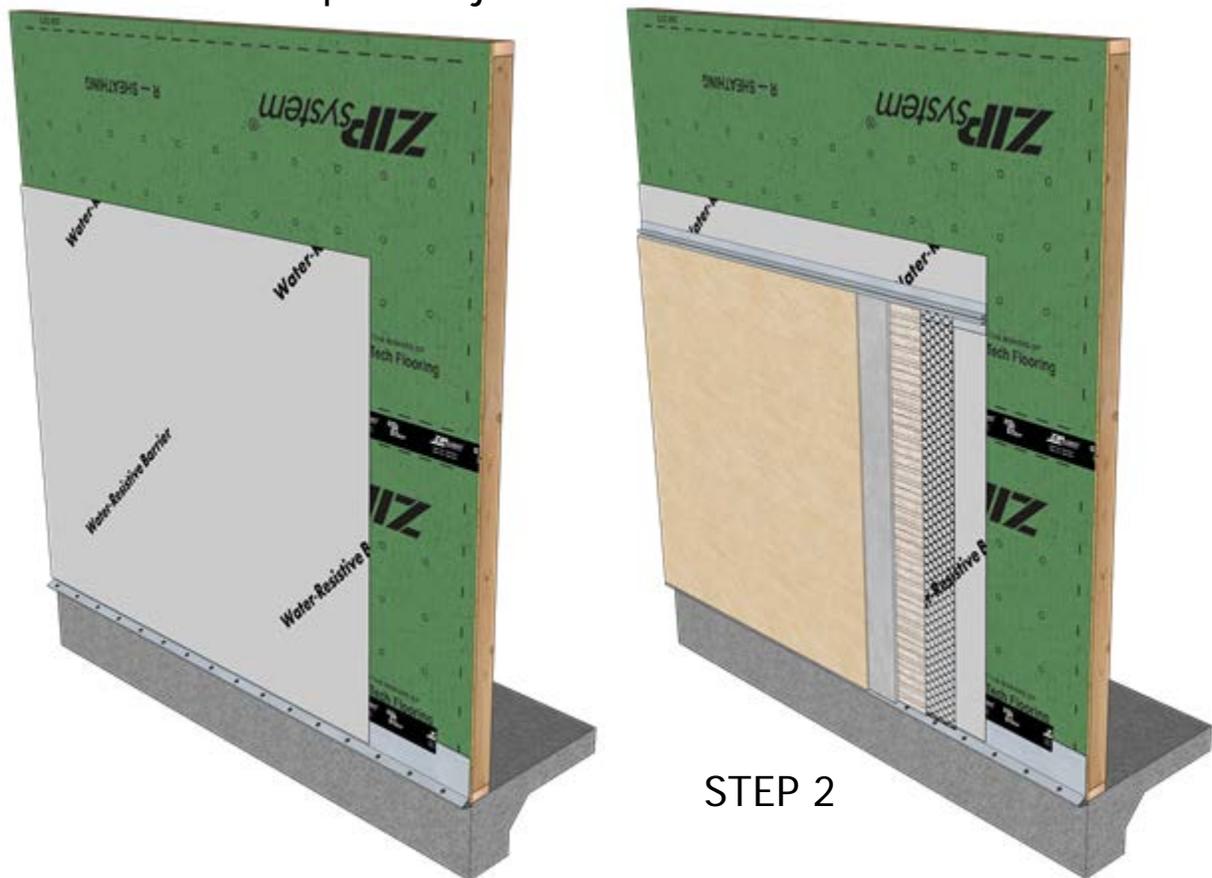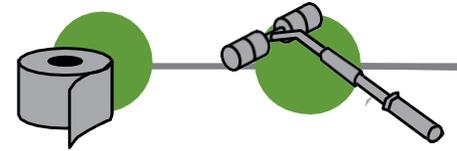

STEP 2

Pro Tip: The building science industry promotes the use of a drainage gap behind porous claddings like stucco.

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

CLADDING //   ADHERED STONE
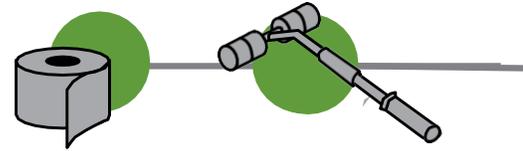
STEP 1: Tape the top edge of the drip edge/weep screen flashing back to the ZIP System® sheathing. Install a mechanically fastened water resistive barrier equivalent to a Grade D felt paper after all ZIP System® sheathing panel seams have been taped.

STEP 2: Install wire mesh, scratch coat, brown and finish in accordance to stone manufacturer's written instructions.
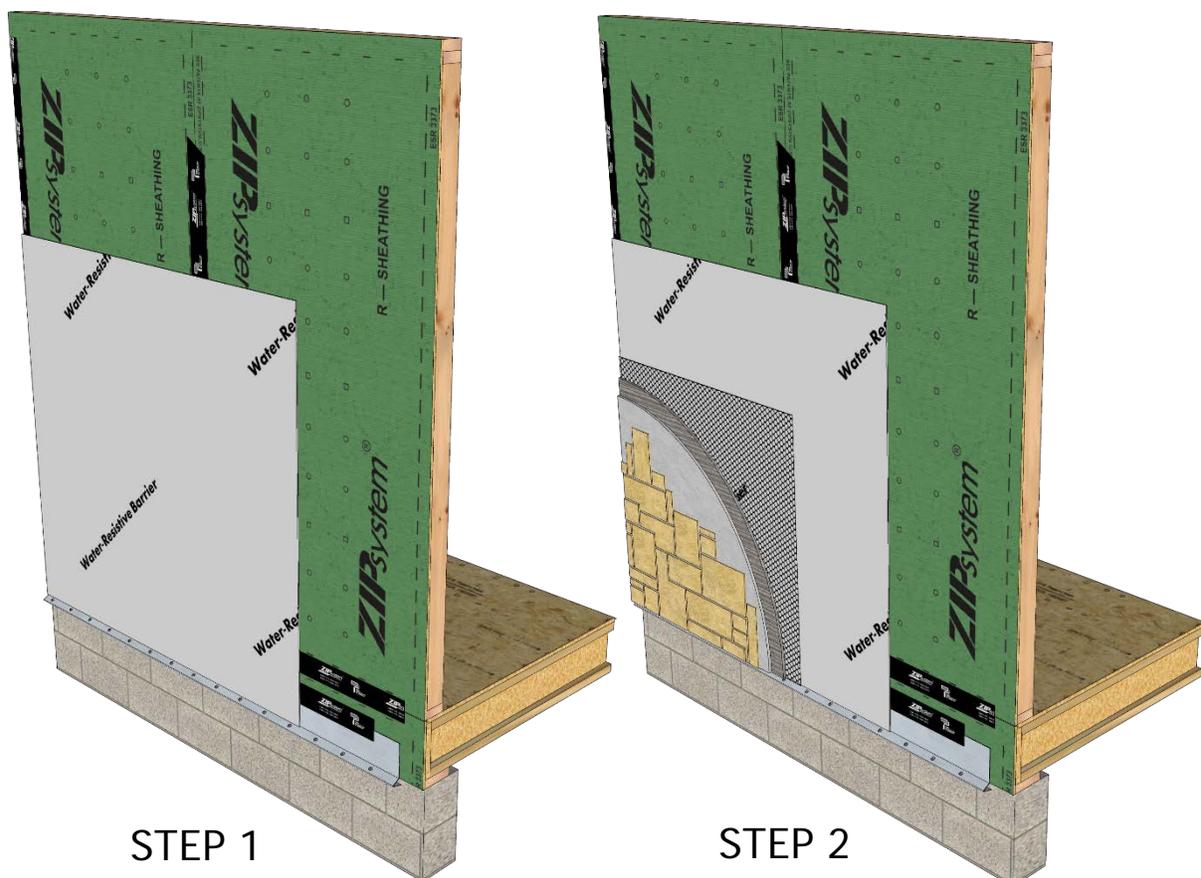
STEP 1

STEP 2

Pro Tip: The building science industry promotes the use of a drainage gap behind porous claddings like adhered stone.

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

CLADDING // EIFS
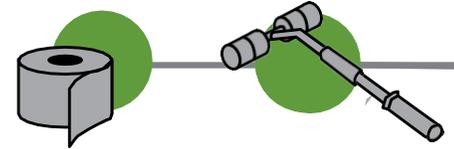
STEP 1: Tape the top edge of the drip edge back to the ZIP System® sheathing. Install foam layer using mechanical fasteners. Only mechanically fastened EIFS is approved for warranted use with ZIP System® sheathing and tape.

STEP 2: Install wire mesh, scratch coat, brown and finish in accordance to EIFS written instructions. Install expansion joints as needed.

STEP 1
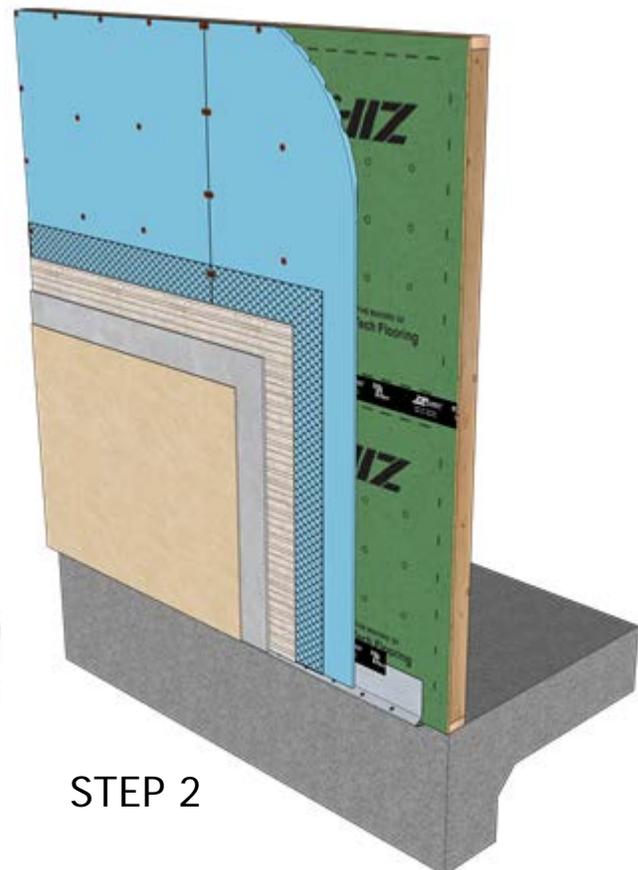
STEP 2

ZIP SYSTEM® WALL SHEATHING // COMMON DETAIL

DECKS & PORCHES

STEP 1: Install ledger board in accordance to designer of record. NOTE: All seams behind the ledger board should be taped with ZIP System™ tape prior to installation of the ledger board

STEP 2: Tape the top edge of the drip edge (by others) back to the ZIP System® sheathing.

STEP 1   STEP 1

ZIP SYSTEM® ROOF SHEATHING
// GENERAL INSTALLATION - ROOF

The following installation steps are presented as a general outline of the installation process. These are manufacturer installation recommendations – please visit ZIPSystem.com for a library of flashing and installation details. You are fully and solely responsible for all safety requirements. Good construction and safety practices should be followed at all times.

ZIP SYSTEM® ROOF SHEATHING
// PANEL ORIENTATION AND SPACING

Ensure that the panel surface is dry and clean of any nails, sawdust, or other debris or protrusions prior to installing or walking on the panels.

After ensuring compliance with all OSHA and local code safety guidelines, install ZIP System® sheathing panels with the moisture barrier surface facing outside. The long edge (8′) should be oriented perpendicular to the framing members, and panels should be installed with the 4′ edge seams staggered a minimum of 24″
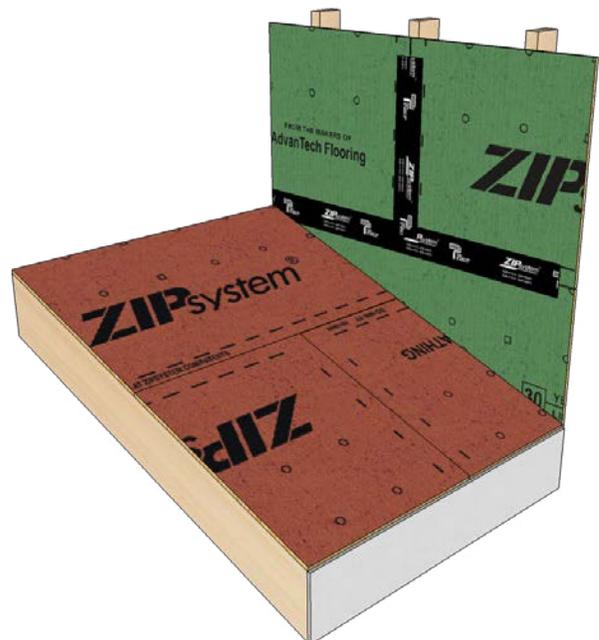
ZIP SYSTEM® ROOF SHEATHING
// PANEL ORIENTATION AND SPACING

1/8" spacing between square edges of all adjacent panels is recommended, in accordance with industry standards for wood sheathing. The unique edge profile is designed to accommodate incremental panel expansion and does not require manual gapping along the 8' edges.

Maintain 1/8" space wherever the tongue and tongue profile does not exist. Unique edge profile is on 8' edges only. Ensure that ZIP System® panels span at least three framing members and a framing member supports the entire 4' edge of the panels.

Fasten the ZIP System® sheathing panel to framing members with code approved fasteners spaced at the appropriate edge and intermediate spacing. It's the responsibility of the general contractor to verify proper fastener type and spacing prior to installation. Apply the fasteners 3/8" from the panel ends and corners.

ZIP SYSTEM® ROOF SHEATHING // TAPING

Apply ZIP System™ tape after all ZIP System® sheathing panels are fully fastened to roof-framing members. Only ZIP System™ flashing tape should be used to seal the seams of ZIP System® panels. Ensure that the panel surfaces are dry and free of any nails, sawdust and other debris, or protrusions. Avoid stepping on tape in high temperature environments. ZIP System™ flashing tape is a contact tape that requires pressure for an adequate seal.

Use a rubber headed roller to apply pressure to the flashing tape.

Pro Tip: Flush fasteners can be achieved by properly setting depth control* selector on the nail gun, setting the air compressor to the tank's manufacturer recommended settings or by using in-line pressure regulators.

*Many nail guns have depth control adjustments to ensure fasteners are driven flush. For pneumatic guns that do not have depth control it is recommended to fit a flush drive attachment collar on the end of the gun.

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS

ZIP System® sheathing is code recognized sheathing and underlayment and is approved for use with following roof coverings:

    Asphalt-fiberglass Shingles
    Metal Roofs (shingles and panels)
    Clay, Concrete Tile
    Slate and Slate-type Shingles
    Wood Shingles and Wood Shakes

When installing roof coverings follow applicable codes and manufacturer's suggested instructions. Some roof coverings require a slip-sheet in additional to conventional underlayment. Where slip-sheets are required, they should be installed over ZIP System® sheathing panels after all seams are taped with ZIP System™ tape. Visit ZIPSystem.com for updates and installation details.

ZIP System® sheathing is intended to replace the first layer of underlayment required by the IBC or IRC. Additional layers of underlayment may be required by code depending on the local climate. ZIP System® sheathing is not be construed as a replacement for interlayment.

Apply wood shakes on roofs with slopes 4/12 or greater. Install wood shakes according to applicable codes and manufacturer's instructions.

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS // ASPHALT-FIBERGLASS SHINGLES

Install all drip edge, applicable flashing and/or ice and water membranes per local building codes or per the designer of record. Asphalt-fiberglass shingles must be installed per the manufacturer's installation instructions.
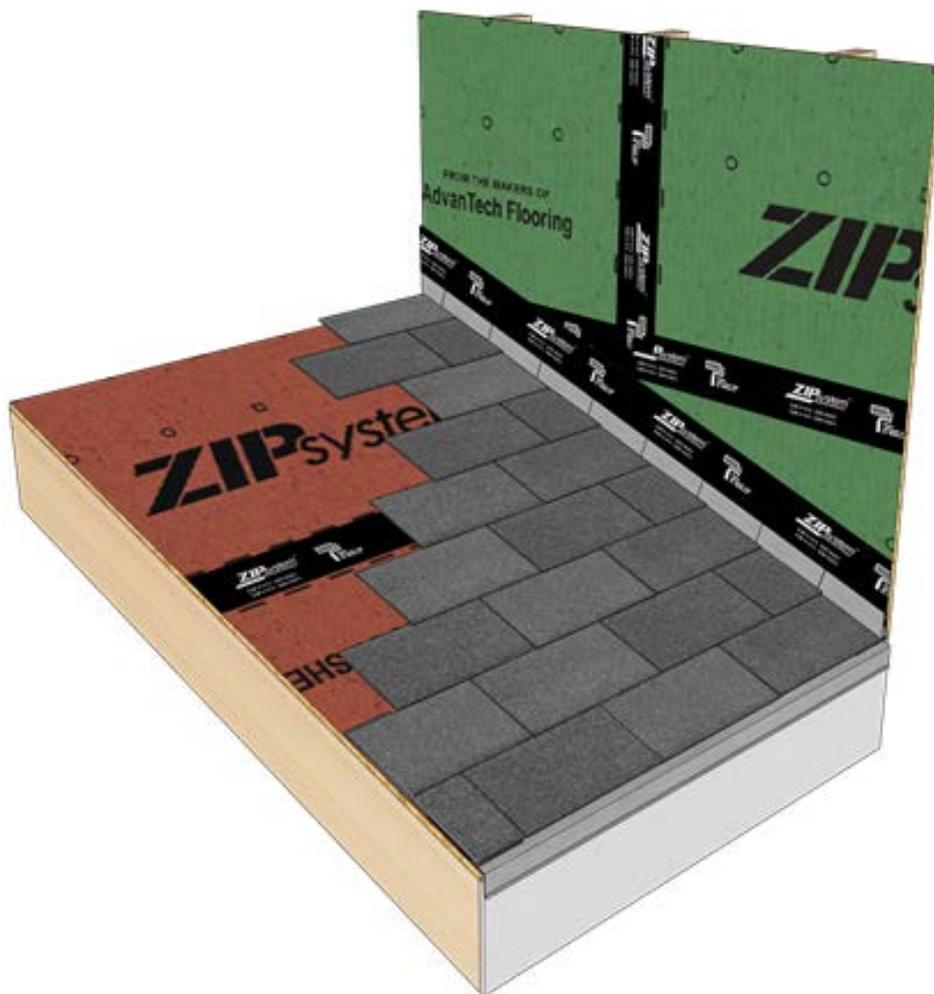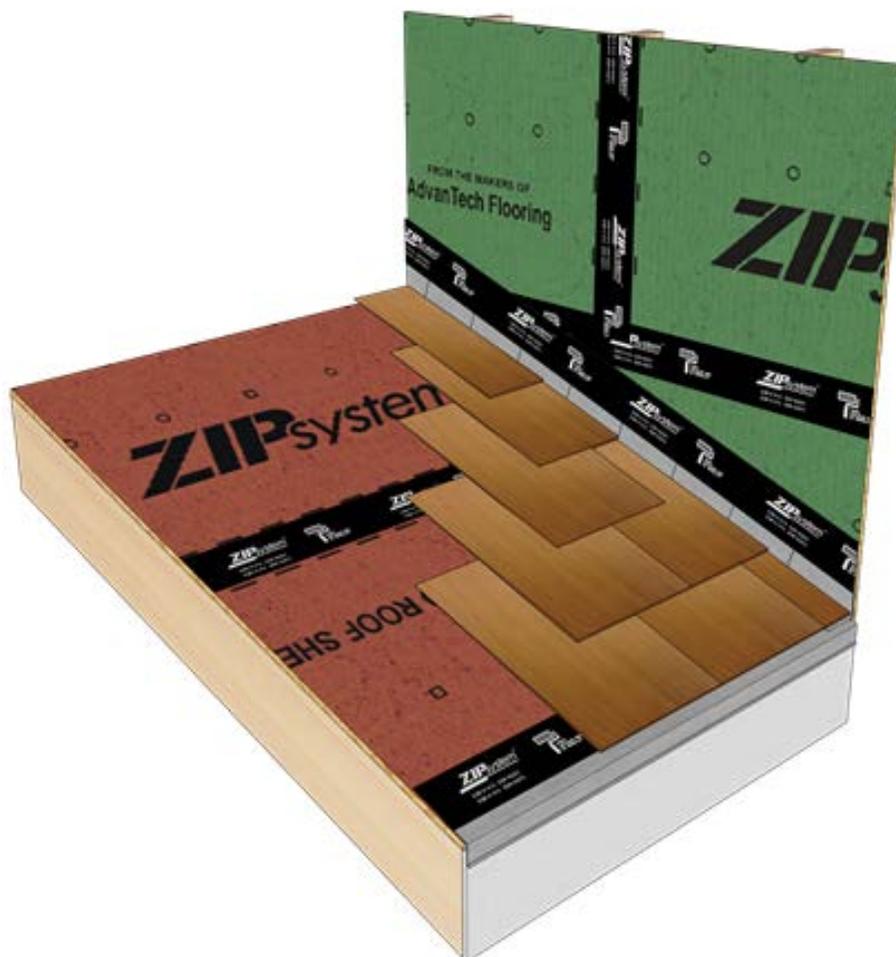
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS // METAL ROOFS

Install all drip edge, applicable flashing and/or ice and water membranes per local building codes or per the designer of record. Metal roofing must be installed per manufacturer's installation instructions.
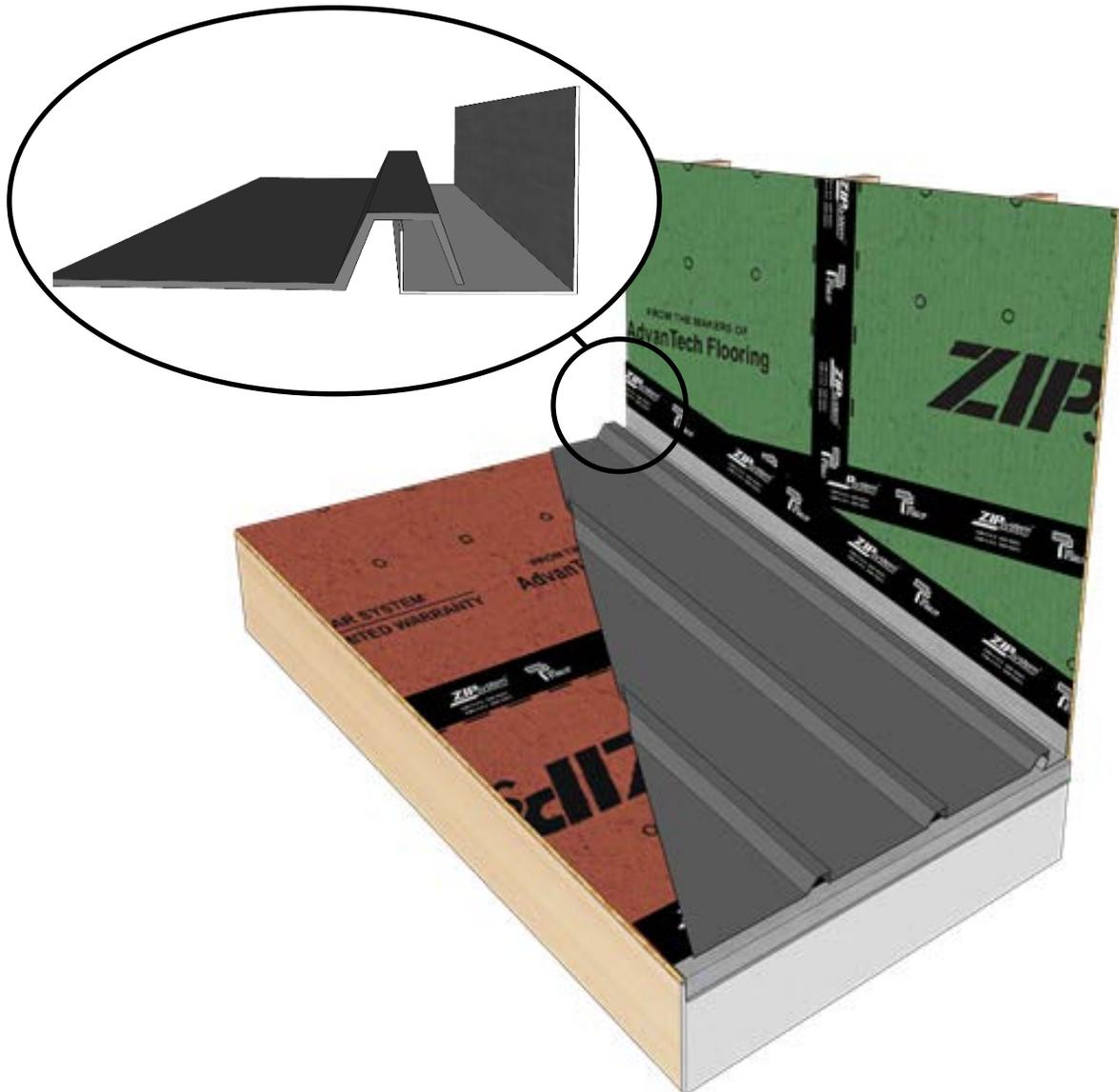
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS //   CLAY, CONCRETE TILE

Install all drip edge, applicable flashing and/or ice and water membranes per local building codes or per the designer of record. Clay, concrete tile must be installed per manufacturer's installation instructions.

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS // SLATE

Install all drip edge, applicable flashing and/or ice and water membranes per local building codes or per the designer of record. Slate roof covering must be installed per slate manufacturer's installation instructions or applicable 3rd party instructions.
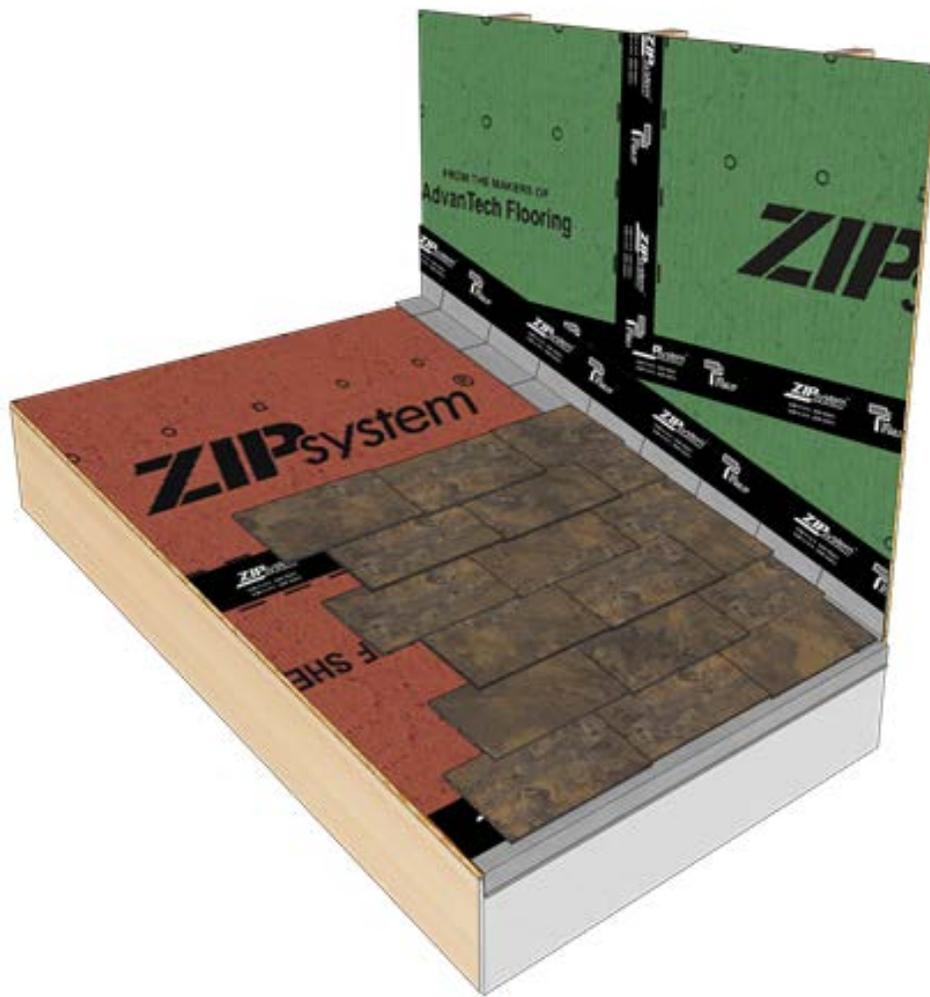
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ROOF COVERINGS // WOOD SHINGLES

Install all drip edge, applicable flashing and/or ice and water membranes per local building codes or per the designer of record. Wood shingles must be installed per manufacturer's installation instructions or per the Cedar Shake and Shingle Bureau guidelines.

PRO TIP: The use of a drainage medium between the roof underlayment and cedar shingles is highly recommended based on industry practice. Use interlayment per manufacturer's installation requirements.

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ICE AND WATER MEMBRANES
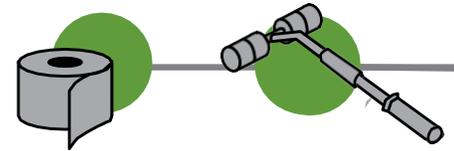
Ice and water barriers may be required by local building code, the authority having jurisdiction or the designer of record. ZIP System® sheathing and flashing tape is not considered a replacement for ice and water barriers. Therefore, when ice and water barriers are required, they should be installed in addition to ZIP System® sheathing and flashing tape. If desired, install a piece of ZIP System™ flashing tape over the top edge of the ice and water membrane.
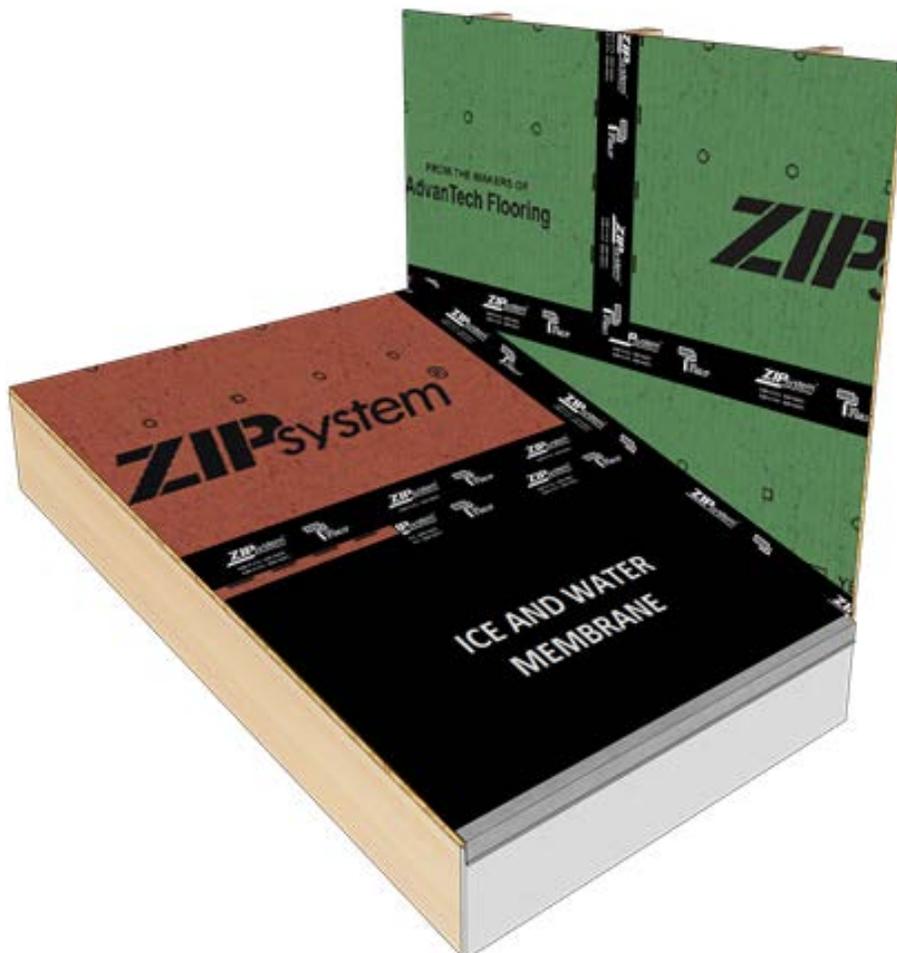
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

H-CLIPS
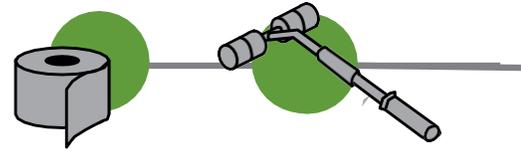
Huber Engineered Woods requires panel edge support for 7/16-inch ZIP System® sheathing installed on roof supports spaced more than 16" on center. Panel Edge support might be blocking, tongue-and-groove edges or panel edge clips (H-clips).

When taping over H-clips, it is important to make sure that the tape is centered, and adequate pressure is applied on all sides of the clip to ensure a proper seal. It should be noted that the use of edge support (H-clips, blocking, tongue-and-groove edges, etc.) does not increase the maximum allowable load on a roof for a given truss or rafter spacing.
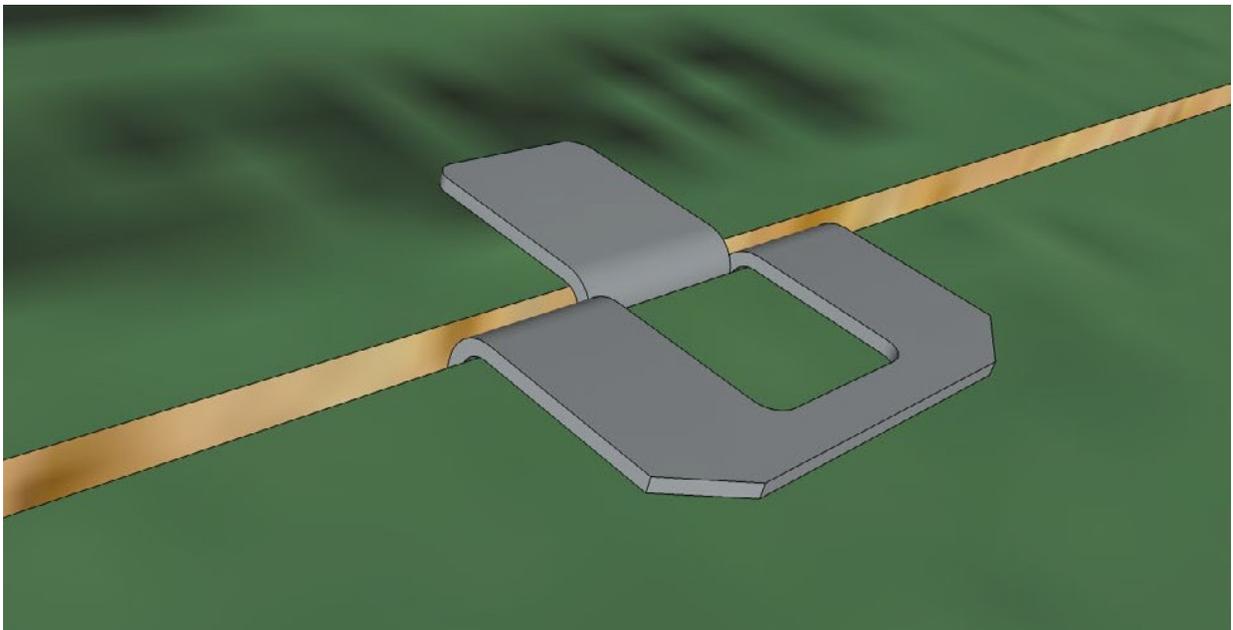
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ALTERNATIVE DETAILS // PIPE BOOTS
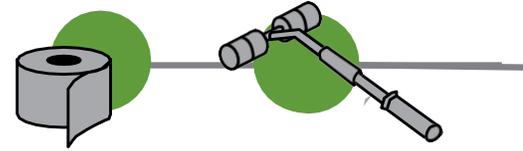
STEP 1: Starting from each of the jambs, apply ZIP System™ flashing tape.

STEP 2: Apply a piece of ZIP System™ flashing tape along the top of the plumbing vent and roll the tape.
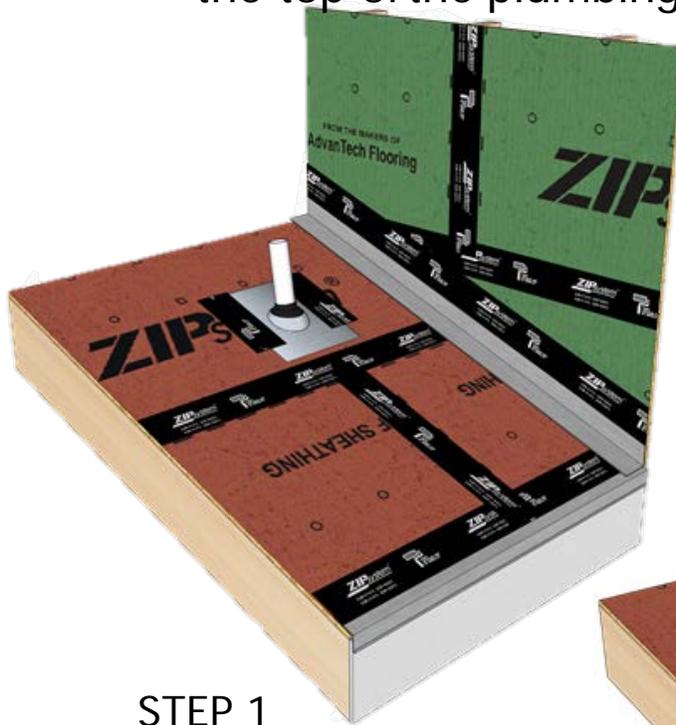
STEP 1
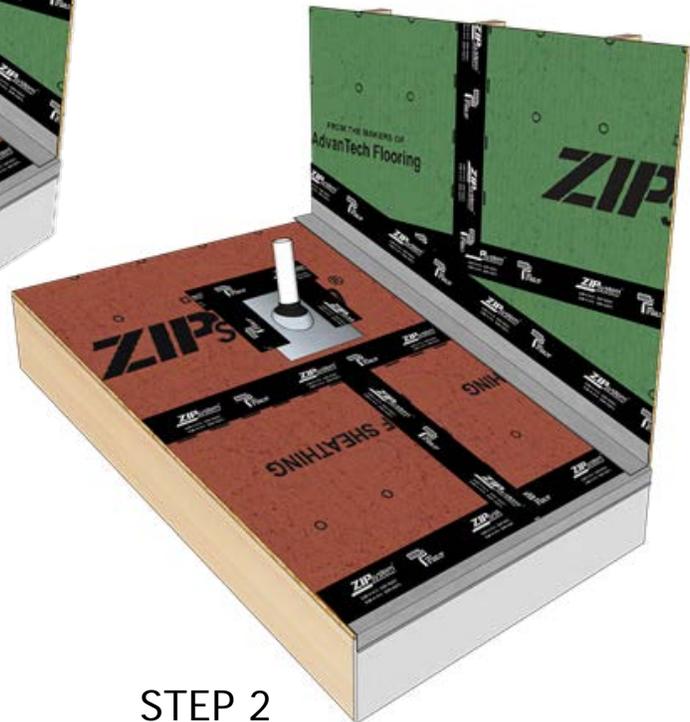
STEP 2

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ALTERNATIVE DETAILS // DRIP EDGE
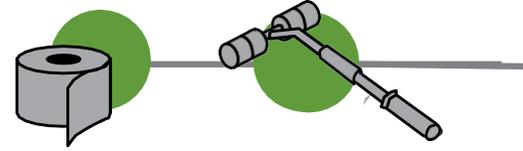
STEP 1: Install the drip edge per local code requirements or drip edge manufacturer recommendations.

STEP 2: Tape the top edge of the drip edge back to the surface of ZIP System® sheathing with ZIP System™ flashing tape.
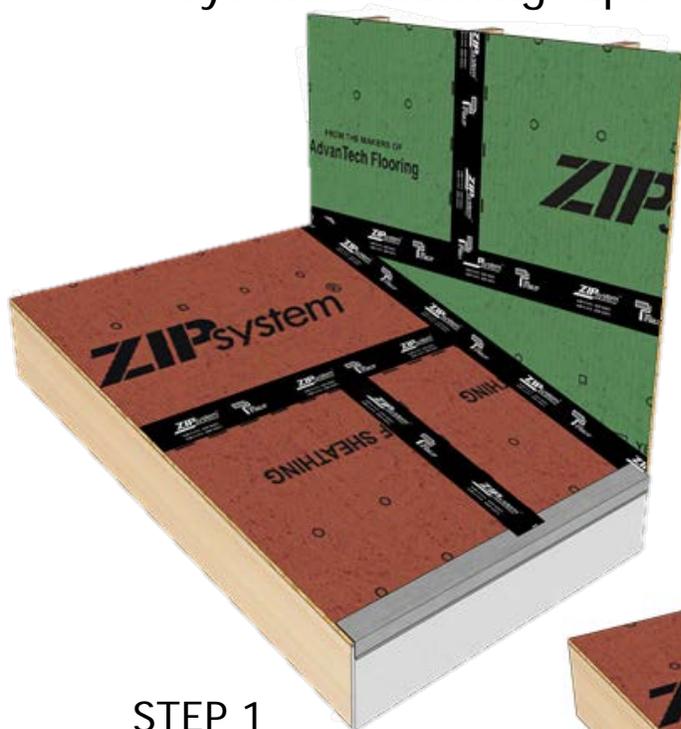
STEP 1
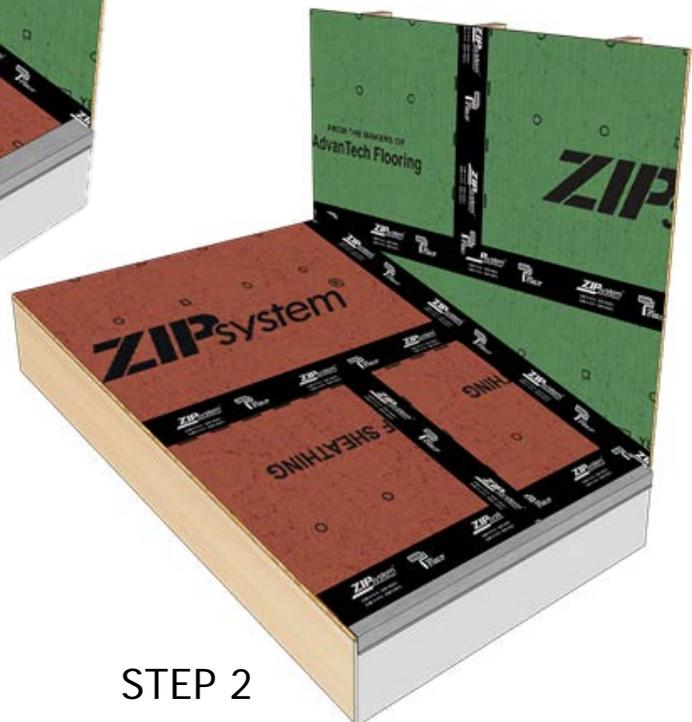
STEP 2

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ALTERNATIVE DETAILS // TOE BOARD
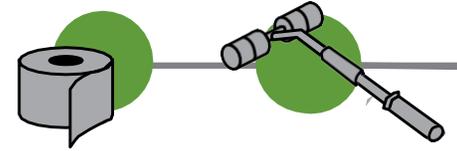
STEP 1: Toe boards are often used to assist the installer during the installation of the panels.

STEP 2: For fastener holes from toe boards or other temporary nailing, install ZIP System™ flashing tape a minimum of 1" around the fastener hole.
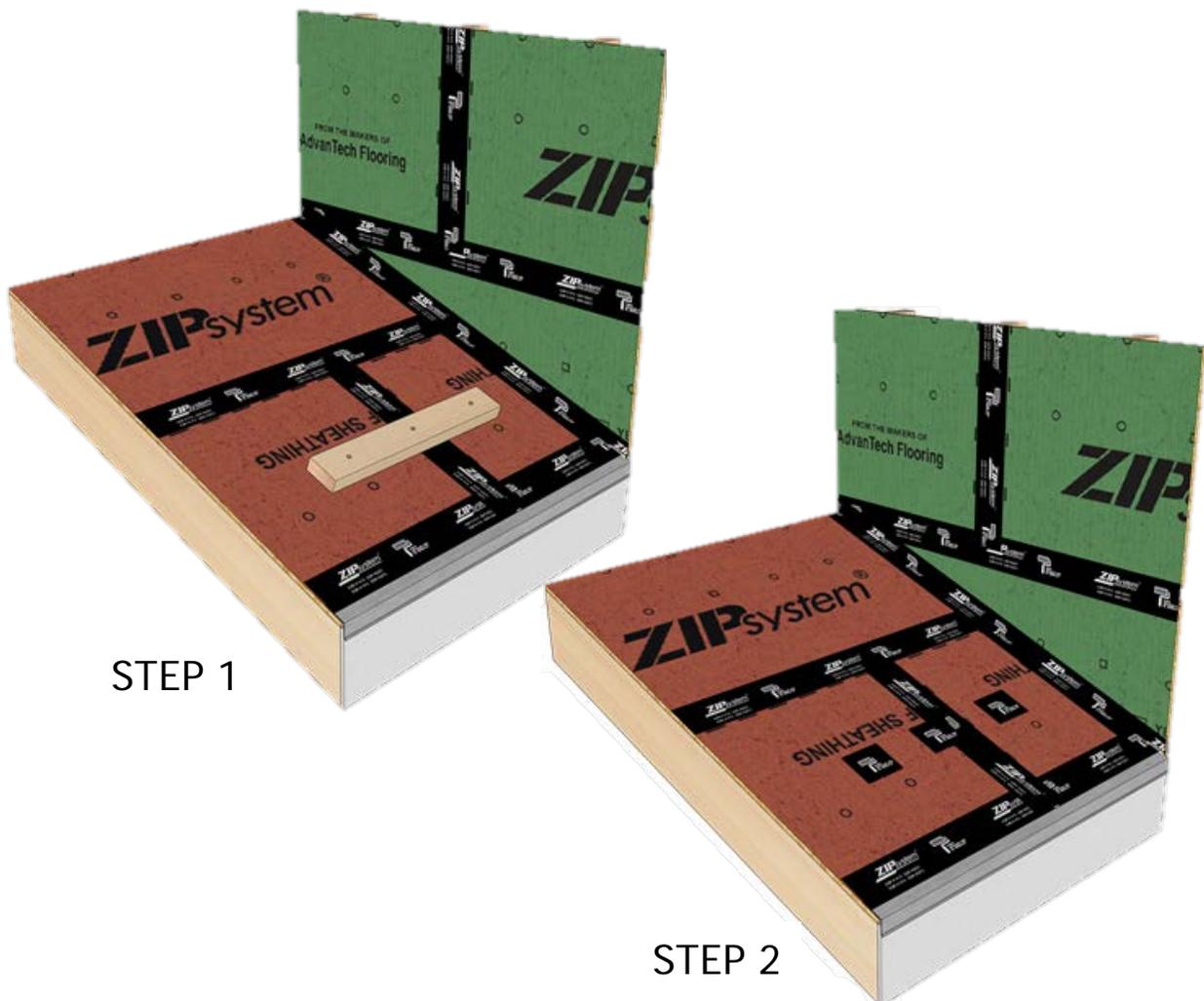
STEP 1

STEP 2

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ALTERNATIVE DETAILS // TAPING ROOF VALLEYS
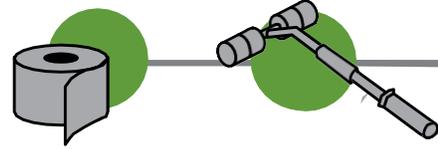
For valley areas of framing, we recommend using minimum 6" wide ZIP System™ flashing tape. This tape is wider than the standard panel seam tape and is designed to give you optimal protection in valley areas.

Starting from the bottom and working your way up, apply one continuous piece of 6" or wider tape so that the center of the tape is over the valley seam. Roll the tape to apply pressure to ensure proper contact with the panel and to eliminate any wrinkles that might have occurred in the tape. Take special care to seat tape completely into the valley. It is important to pay extra attention to valley taping as water is directed toward the valleys during rain events.
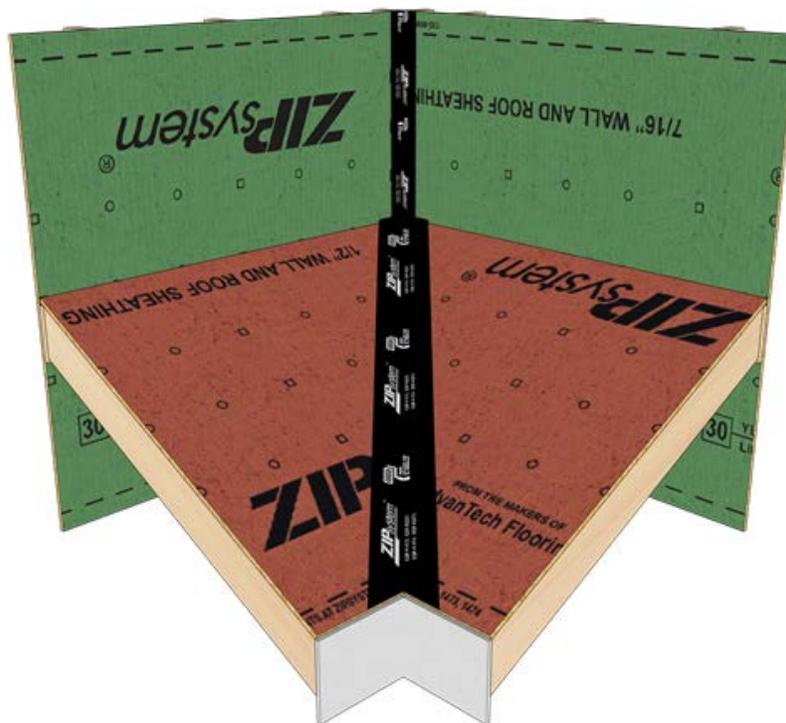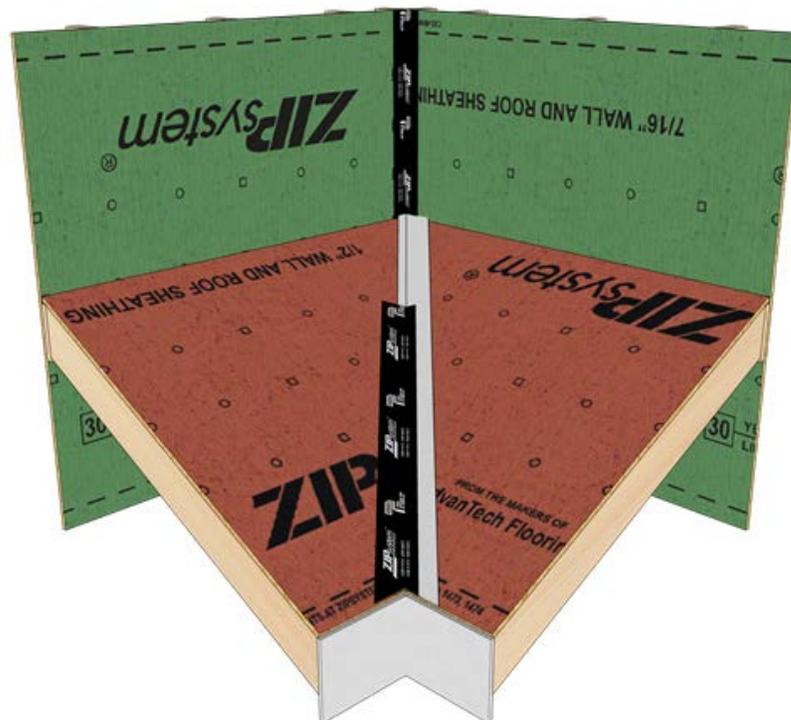
ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

## ALTERNATIVE DETAILS // TAPING ROOF VALLEYS
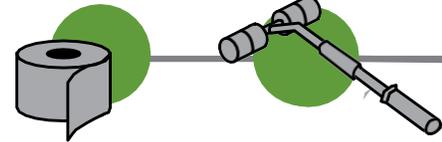
If 6" or wider ZIP System™ tape is not available, use a minimum two continuous pieces of 3-3/4" ZIP System™ tape over the entire length of the valley seam, overlapping the pieces on the valley seam by at least 1".

Starting from the bottom, install the first piece of tape overlapping the valley seam by at least 1". Roll the tape to apply pressure to ensure proper contact with the panel and to eliminate any wrinkles that might have occurred in the tape. Apply the second piece of tape, overlapping the first piece in the valley seam by 1". Roll the tape to apply pressure and ensure the tape is adequately adhered and tightly pressed into the valley seam. It is important to pay extra attention to valley taping as water is directed toward the valleys when it's raining.

ZIP SYSTEM® ROOF SHEATHING // COMMON DETAIL

ALTERNATIVE DETAILS // TAPING ROOF VALLEYS
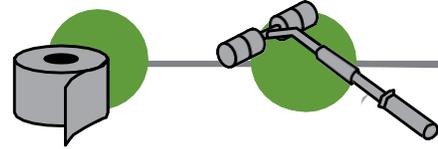
To provide temporary weather protection to roof/wall intersections of dormers or other wood-sheathed projections, apply 2" of the tape width up the vertical projection from where it intersects with the roof. The remaining tape width can be adhered to the ZIP System® roof sheathing panels. Roll the tape to apply pressure to the tape and smooth out any wrinkles.

Install ZIP System™ tape over hips and ridges by centering the tape over the peak seam. Apply tape in sufficient length to completely extend the length of the hip or ridge. Starting from the lowest point of the hip and working up, press tape into place keeping tape centered over the hip. Apply pressure onto the surface of the tape to ensure a secure bond between the panel and the tape. Cut ridge tape as required for ventilation prior to installing ridge vent.

ZIP SYSTEM® SHEATHING AND TAPE
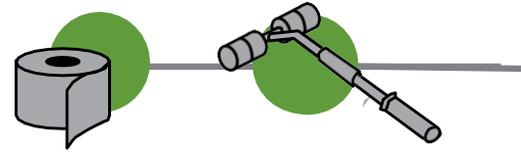# // COMMON FIXES

SMALL HOLES

STEP 1: A small hole is an opening that is less than 2-inches in diameter.

STEP 2: Install 1 to 2 layers of ZIP System™ flashing tape over the hole. The tape should have a minimum of 1-inch overlap on all sides of the hole.
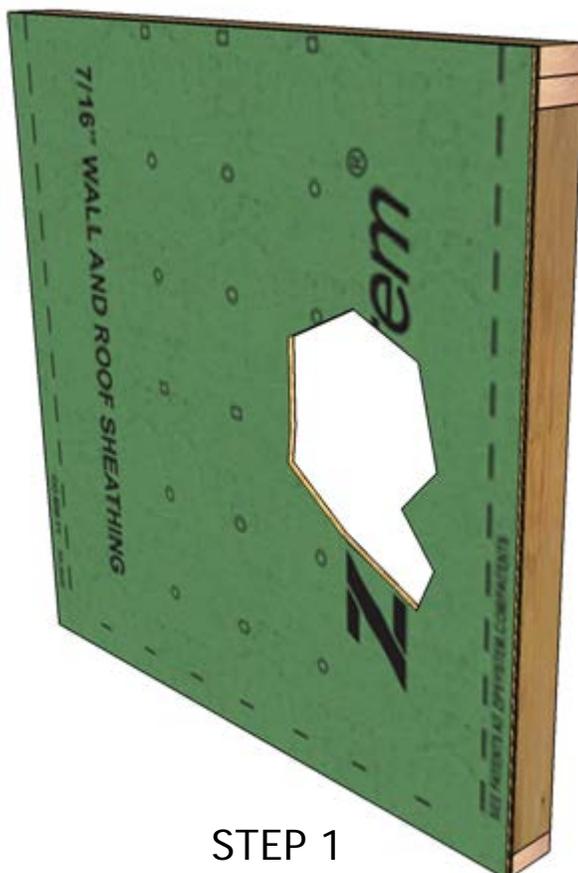
STEP 1

STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

LARGE HOLES

STEP 1: Large holes in the ZIP System® sheathing can affect the water resistive and air barrier properties of the panel, as well as, the structural component.

STEP 2: Cut out of the section of panel around the large hole by cutting from vertical stud to vertical stud. In shear wall applications horizontal blocking must be installed in between the vertical studs to provide lateral support to satisfy structural requirements.
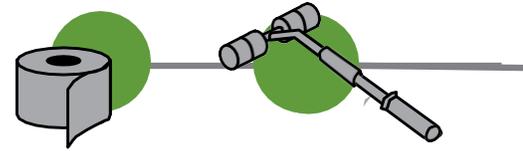

STEP 1   STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

LARGE HOLES

STEP 3: A new piece of ZIP System® sheathing should be cut to fit the hole.

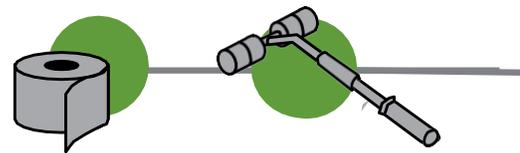**STEP 4:** Tape all newly created panel seems with ZIP System™ flashing tape and roll the tape.

STEP 3   STEP 4

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

SAW KERFS

STEP 1: A saw kerf is damage to the overlay created by a circular saw that does not penetrate in the wood portion of the panel as this may affect the structural integrity of wood structural panels.

STEP 2: A saw kerf can be remedied by placing a piece of ZIP System™ flashing tape over the saw kerf and roll the tape into place.

STEP 1   STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

CHIPS IN THE OVERLAY
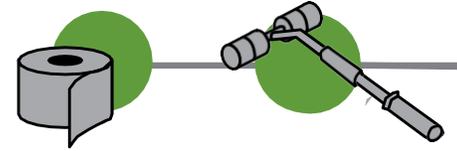
STEP 1: Chips in the overlay can be created numerous different ways, but the most common is by impacts from hard edge objects.

STEP 2: A chip in the overlay can be remedied by placing a piece of ZIP System ™ flashing tape over the chip and rolling the tape into place.
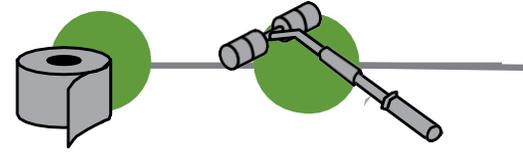
STEP 1   STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

SIDING REMOVAL

STEP 1: Siding can get damage during the construction phase or throughout the life of the structure requiring the siding to be removed.

STEP 2: When siding is removed from ZIP System® sheathing a new code-recognized water resistive barrier should be installed over the areas where the siding was removed.
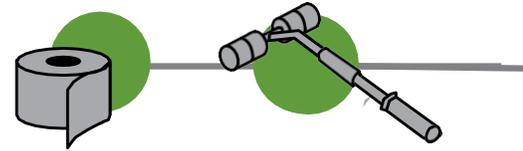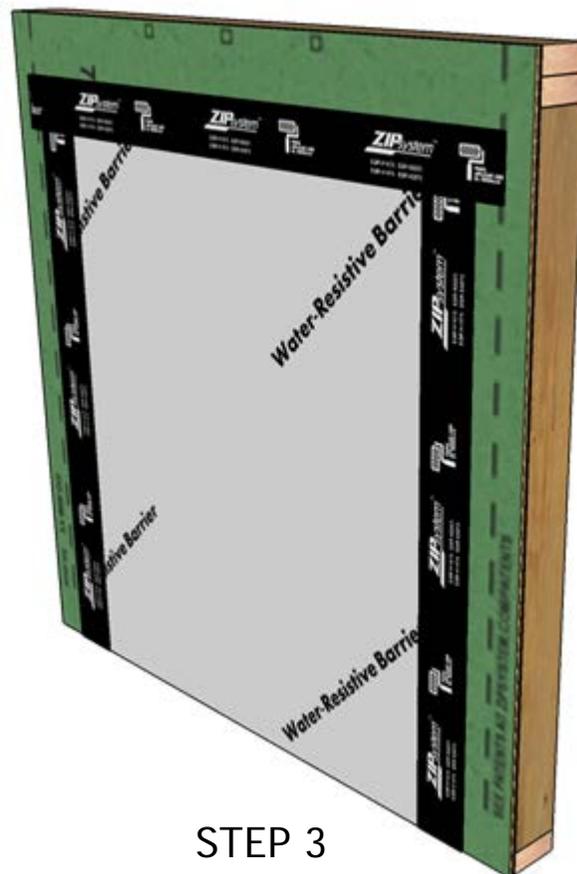
STEP 1   STEP 2
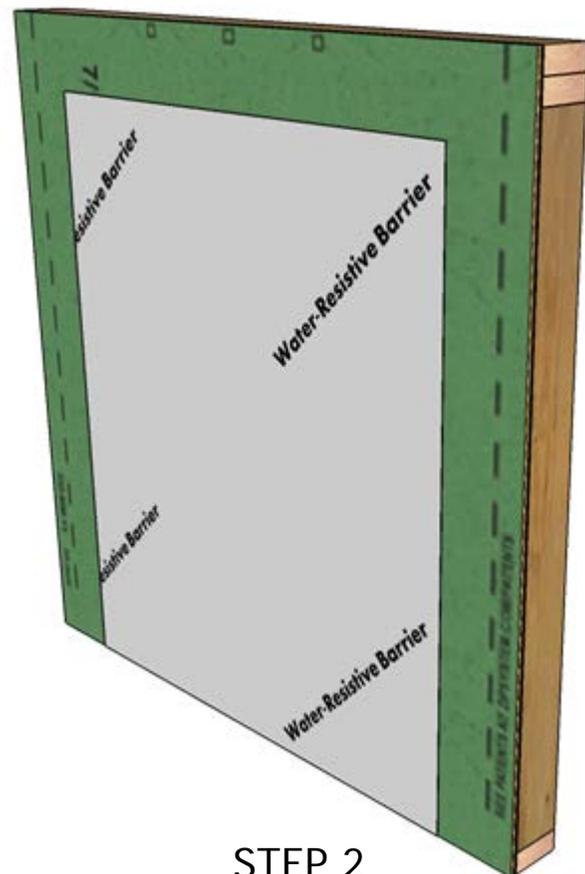
ZIP SYSTEM® SHEATHING AND TAPE
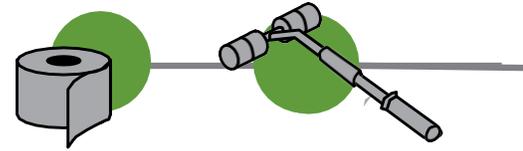## // COMMON FIXES

SIDING REMOVAL

STEP 3: When the water resistive barrier is a loose laid wrap or felt paper that is terminated in the middle of the plane install ZIP System™ flashing tape along the edges and roll the tape.

STEP 3

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

CRANE HOLES

STEP 1: Crane holes are often created in prefabricated wall sections in order to lift the sections into place. Crane holes in the ZIP System® sheathing can affect the water resistive and air barrier properties of the panel as well as the structural component

STEP 2: It may be necessary to add horizontal blocking between the vertical studs to provide lateral support.
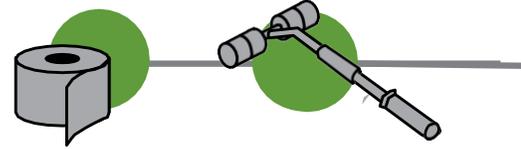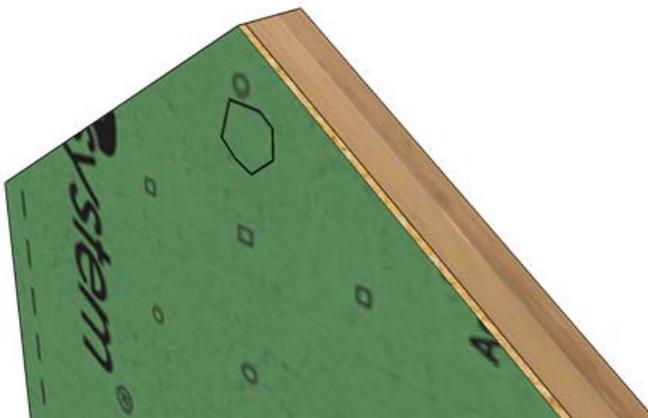
STEP 1

STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

CRANE HOLES

STEP 3: A new piece of ZIP System® sheathing should be cut to fit.

STEP 4: Tape all newly created panel seems with ZIP System™ flashing tape and roll the tape.
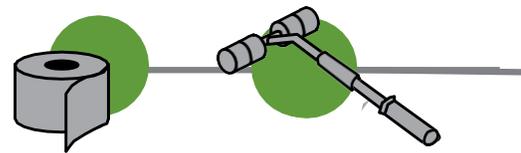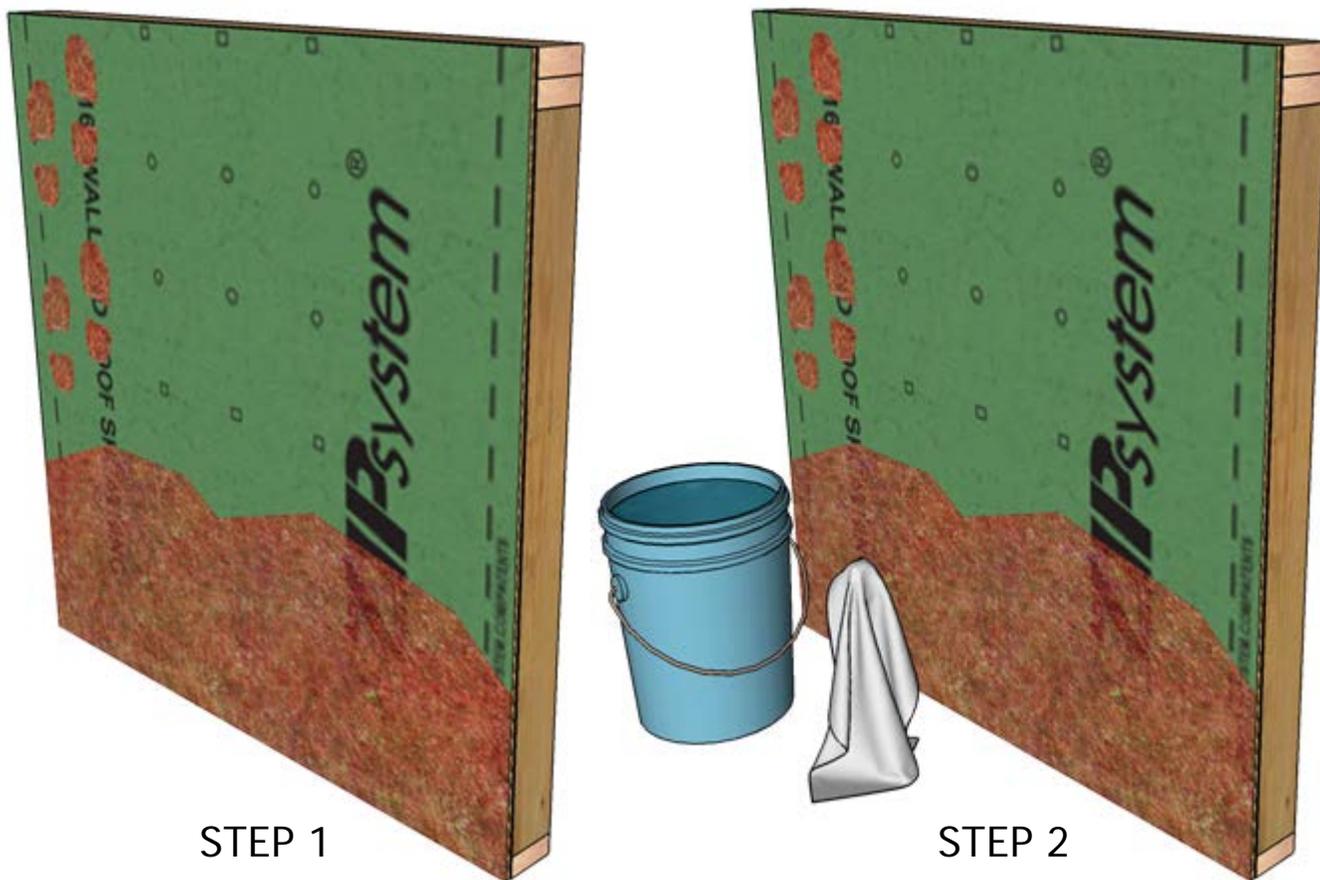

STEP 3

STEP 4

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

DIRTY PANELS

STEP 1: It is important that panels are free of any dirt or debris prior to installing ZIP System™ flashing tape to the panels

STEP 2: If dirt or debris occurs on the panel it is recommended to remove the dirt with water and a towel.
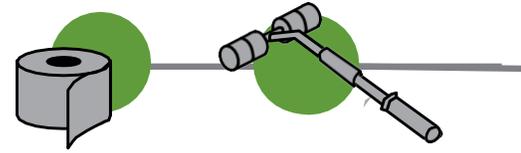
STEP 1   STEP 2

ZIP SYSTEM® SHEATHING AND TAPE
// COMMON FIXES

DIRTY PANELS

STEP 3: Before installing ZIP System™ flashing tape to the panel after removing any dirt or debris ensure the panels are dry to the touch.

STEP 3