

STAFF REPORT
CONCERNING APPLICATION FOR A
CERTIFICATE OF APPROPRIATENESS

Date: August 15, 2018

Application Number: 2018-0809A

Property Location: 1341 E Wayne

Architectural Style/Date/Architect or Builder: Tudor Revival / 1928 / H. R. Stapp / Whitcomb & Keller

Property Owner: Katherine M. Cinninger

Landmark or District Designation: East Wayne Street Local Historic District, Ordinance #7796-87

Rating: *Contributing*

DESCRIPTION OF STRUCTURE/ SITE: This is a two-story frame irregular plan Tudor Revival with a flared gable asphalt shingle roof with gable return and molded raking trim. A large shed-dormer is on the northwest face. There are casement windows with cut stone sills, half-timber lintels, a brick soldier lintels, and irregularly offset stucco and half-timbering. The two car garage to the rear was originally detached, but is now connected with a later one-and-a-half story addition. The chimney is situated at the entry.

ALTERATIONS: COA #1991-0709 allowed for the re-roof of the house and garage with asphalt shingles. COA #1991-0806 allowed for the construction of a porch and connection to the garage. COA #2007-1030 allowed for the construction of a roof off of the non-original addition to create a shaded patio area, trimmed in cedar to match the main structure. COA #2012-0614 allowed for the re-roof of the main house with Owing-Corning architectural asphalt shingles. COA #2012-0829 and COA #2015-0512 allowed for the removal of a dying willow tree in the front yard. RME #2018-0809 (a companion project to the current application) allowed for the replacement of gutters, repair/replacement of wood trim, and to fix the (ventilation) of the soffits.

APPLICATION ITEMS: “Replacement / repair of cedar lap siding.”

DESCRIPTION OF PROPOSED PROJECT: Applicant seeks approval for the following improvements to the site:

1. Replacement of existing cedar shake siding with one of three options:
 - a. Replacement with new Cedar Shake Siding (like for like),
 - b. Replacement with “Double 7” Perfection Shingle” manufactured from Polypropylene by Mastic,
 - c. Replacement with LP Smartside, a wood fiber composite.

The cedar aspects of this home are at the rear and are found on later additions to the structure. The position / area of the existing cedar wood siding will require continual maintenance were the cedar shake siding to be replaced like for like. Moss and other examples of water infiltration will continue to occur. Alternative materials are an option, each with benefits and negatives. Mastic “Double 7” Perfection Shingles” is a polypropylene product, and the example provided to our office is a shingle option that makes an attempt to replicate the ‘even butt’ of the shake siding that is currently found on the house. LP Smartside is a wood composite that will have some of the same life-span issues that the existing Cedar Shake siding will have.

SITE VISIT REPORT:

August 10, 2018

At approximately 10:45 AM I met with Dale Donat of Donat’s Construction at the property located at 1341 E Wayne North. The property is located in East Wayne local historic district. He had applied to do repairs to the siding and soffits to the structure. The original structure has a Tudor style façade mostly brick and a second story with stucco between cedar trim. There are continuous wood soffits without vents and crown molding against the house holding the soffits in place. The rear of the structure has 15” wood grooved shakes with a 13” reveal. An addition added in the 1980s by Donat’s has the same siding and the same soffits as the original structure. I counted at least 12 areas where the siding has either been deteriorated by water or pests and have the underneath material showing. Several areas of the soffit have peeling paint and some warping, due to no ventilation. Many areas of the cedar trim need repair, paint, or in some cases, replacement.

Mr. Donat told me he intends to:

- repair the soffits, maintain the crown molding and add badly needed ventilation on both the original structure and rear addition
- replace the existing wood siding with LP Smart wood composite siding that is textured and sized to match the existing. The siding offers greater resiliency to pests and has a cost that is less than the siding that would match that put on in the 1980s.
- repair, paint, or replace the damaged cedar trim where needed.
- painting replacement material the same to match.

Steve Szaday
Preservation Inspector

STANDARDS AND GUIDELINES, EAST WAYNE STREET:

I. EXISTING STRUCTURES

A. BUILDING MATERIALS

Original exterior wall materials in the District include limestone, flagstone, stucco, clapboard, wood shingles, sandstone and masonry block. In some instances, vinyl or aluminum siding have been applied over the original surface

Required

Original exterior building materials shall be retained. Deterioration of wood materials shall be prevented through repair, cleaning and painting. The existing or original architectural detail around windows, porches, doors and eaves should be retained or replaced by replicas of the same design and materials when deteriorated beyond despair. Masonry including brick, limestone, flagstone, sandstone and stucco shall be cleaned only when necessary to halt deterioration or to remove stains, and shall be done with a method acceptable for the preservation of the surface: i.e. low pressure water and soft natural bristle brushes. When repairing stucco, stucco mixture compatible in composition, color and texture shall be used.

Recommended

Whenever possible, the original building materials should be restored. Metal or vinyl siding may be used when it is the only alternative to maintaining or replacing the original surface material. When used over wood surfaces, this siding should be the same size and style as the original wood. Every effort should be made to retain the original trim around windows, doors, cornices, gables, eaves and other architectural features. Ample ventilation must be afforded the structure when metal or vinyl siding has been installed in order to prevent increased deterioration of the structure from moisture and/or insects. Mortar joints should be repointed only when there is evidence of moisture problems or when sufficient mortar is missing to allow water to stand in the mortar joint. Existing mortar shall be duplicated in composition, color, texture, joint size, method of application and joint profile. It is emphasized that, prior to initiating any restoration or rehabilitation effort, the property owner should contact the Historical Preservation Commission of South Bend and St. Joseph County which is located in the County/City Building of South Bend. The Commission is an invaluable source of information about all facets of rehabilitation and restoration.

Prohibited

Wood siding shall not be resurfaced with new material which is inappropriate or was unavailable when the building was constructed, such as artificial stone, brick veneer asbestos or asphalt shingles. Sandblasting or the use of harsh detergents shall not be used on masonry including brick, stucco, limestone, flagstone and sandstone. This method of cleaning erodes the surface material and accelerates deterioration. Brick surfaces shall not be painted unless they had been painted originally. Repointing shall not be done with a mortar of high Portland cement content which can often create a bond that is stronger than the building material. This can cause deterioration as a result of the differing coefficient of expansion and the differing porosity of the material and the mortar, which can result in serious damage to adjacent brick. Paint shall not be removed from masonry surfaces indiscriminately.

Not Recommended

Waterproof or water repellent coatings or surface consolidation treatments should not be used on masonry surfaces unless required to solve a specific problem that has been studied and identified. Coatings are frequently unnecessary and expensive, and can accelerate deterioration of the masonry. Mortar joints which do not need repointed should not be repointed.

STAFF RECOMMENDATION: The applicant is prepared to replace the existing cedar trim as allowed for with RME #2018-0809 but has voiced concern that replacing the Cedar shingles is considered cost prohibitive by the homeowner. Because of the location of these Cedar shingle portions of the house, the degradation of the material has been accelerated leading to regular and continued maintenance by the contractor.

As an alternative, Staff was willing to consider the replacement of the shingles with LP Smartside. Staff is of the understanding that this material – when cut to fit the roofline of the structure – will have a higher probability of being compromised by the elements (specifically water at the seems) as well as the temperature extremes of Indiana seasons (with expansion and contraction).

The final option presented with this application is preferred by the contractor/applicant: replacing the cedar shingles with a polypropylene siding replicating the style of cedar siding. The majority of this siding is at the rear of the structure and has limited visibility from the street. The Standards and Guidelines for the district do allow for the installation of metal or vinyl siding in the event that it is the “*only alternative to maintaining or replacing the original material.*” However, Staff believes that replacement Cedar shake shingles are readily available.

In a best case scenario, Staff recommends replacing the shingles with new Cedar Siding. In lieu of that option, staff is conflicted and offers no recommendation.

Written by
Adam Toering
Historic Preservation Specialist

Approved by
Elicia Feasel
Historic Preservation Administrator



Figure 1 - A composite of modern satellite imagery and the 1960 Sanborn map of the indicated property.

Photos



Figure 2 – 1341 E Wayne, from the street.



Figure 3 – 1341 E Wayne, looking from the driveway towards the east.



Figure 4 – 1341 E Wayne, from the street, looking northeast.



Figure 5 - close-up of the southeast corner of the structure – the later additions are off-frame to the right.



Figure 6 - The later addition, looking to the west. The shed dormer is visible at the left edge of the image. Note Cedar siding deterioration.



Figure 7 – Similar view as above.



Figure 8 -- Later addition at rear of home.



Figure 9 - Deterioration at corner connection to garage area.



Figure 10 - Driveway face of 1 and a half story addition. Main structure to the right.



Figure 11 - Shingle deterioration at rear of home on addition.



CEDAR DISCOVERY  AUTHENTIC SHAKE AND SHINGLE



Mastic products are backed by Ply Gem — a 75-year leader in pioneering performance home exteriors, with a superior warranty for exactly the home you want for decades to come. Homeowners can feel confident knowing Ply Gem always goes the extra mile. From innovative engineering to trend setting design and industry leading warranties, we're a company you can trust with products you'll love.

authentic



COVER IMAGE: Cedar Discovery 7" Perfection Shingle in Montana Suede and Board+Batten Designer Series™ in White

THIS PAGE: Cedar Discovery 7" Perfection Shingle in Montana Suede



Cedar Discovery 7" Perfection Shingle in Montana Suede
and Board+Batten Designer Series™ in White

No paint. No stain. No hassles. That's the real beauty of Cedar Discovery®. The classic, rugged look of real cedar shakes and shingles. Realistic textures. Random gaps and grooves. Deep shadow lines. Cedar Discovery delivers with an exciting and improved family of products.

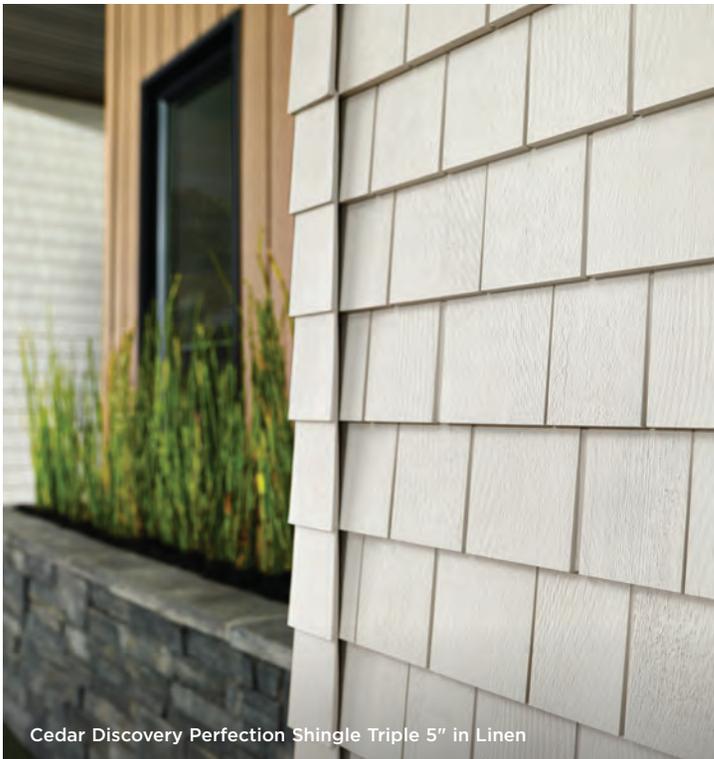


Cedar Discovery Hand-Split Shake in Red Cedar, Ply Gem Stone Manorstone in Oswego and Ply Gem Trim in Cottage Red



HAND-SPLIT SHAKE

Rich, realistic texture and deep random grooves replicate the beautifully rustic look of real cedar shakes.

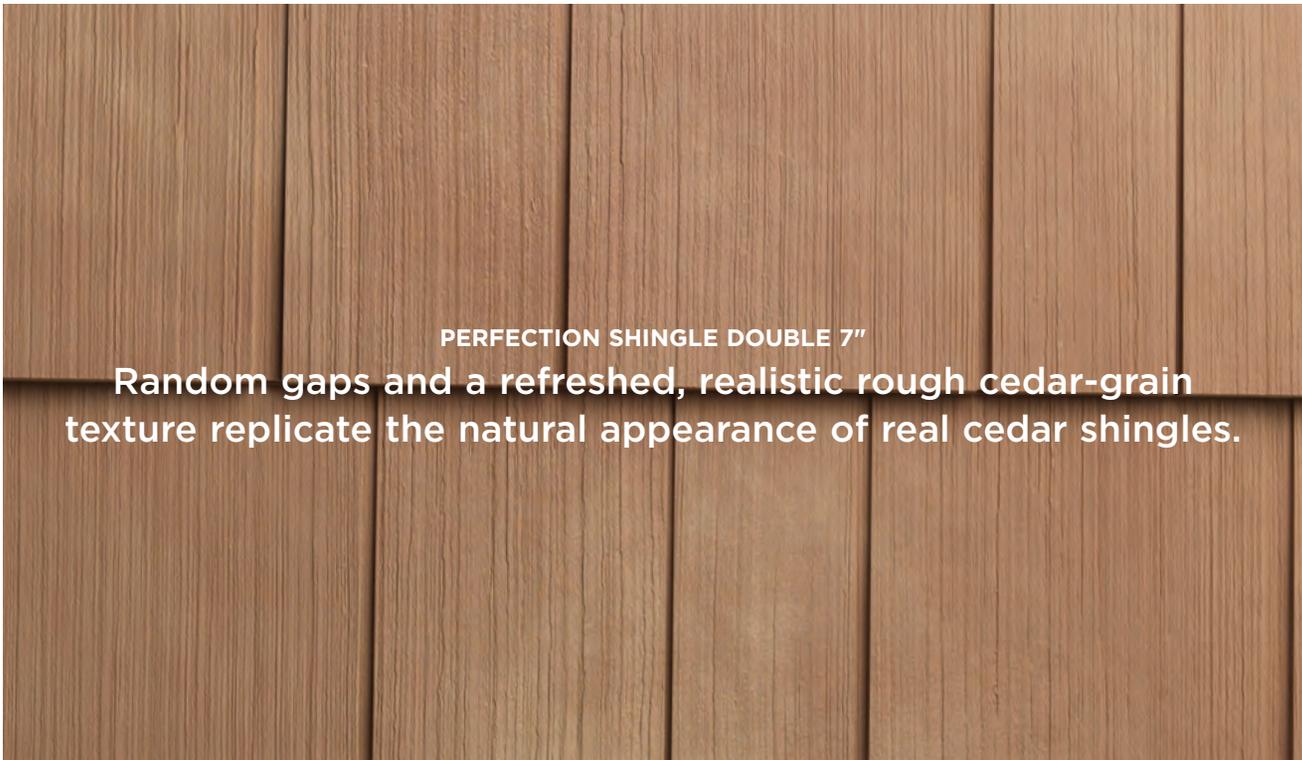


Cedar Discovery Perfection Shingle Triple 5" in Linen



PERFECTION SHINGLE TRIPLE 5"

Random gaps and a cedar-grain texture replicate the look of real cedar shingles.

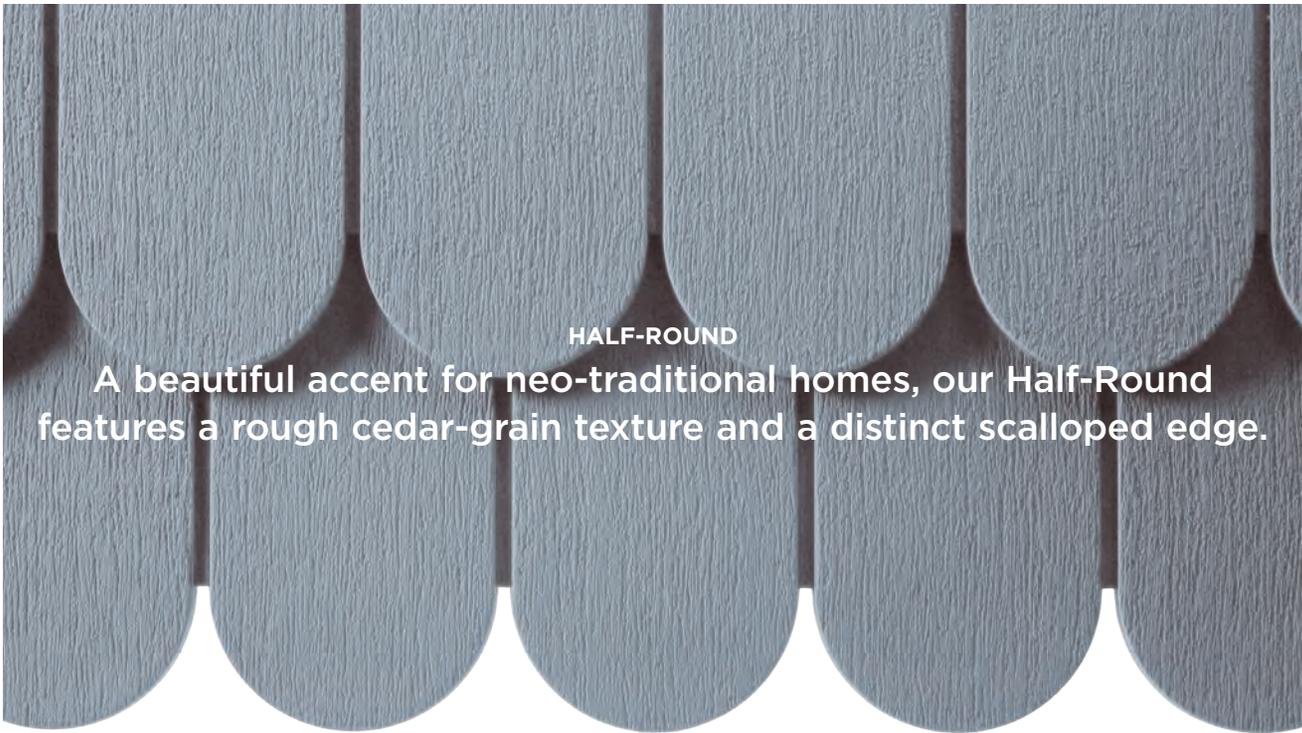


PERFECTION SHINGLE DOUBLE 7"

Random gaps and a refreshed, realistic rough cedar-grain texture replicate the natural appearance of real cedar shingles.



Cedar Discovery Perfection 7" in Montana Suede



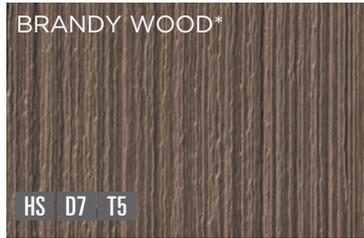
HALF-ROUND

A beautiful accent for neo-traditional homes, our Half-Round features a rough cedar-grain texture and a distinct scalloped edge.



Cedar Discovery Half-Round in a Portsmouth Blue

Color



*SolarDefense Vinyl Siding Color Match



**CEDAR DISCOVERY
PROFILE AND COLOR KEY**

Due to printing limitations, colors may not be exactly as shown. Refer to actual sample and color chips for best match.

HS HAND-SPLIT SHAKE

HR HALF-ROUND

D7 PERFECTION SHINGLE D7"

T5 PERFECTION SHINGLE T5"

ALL ALL PROFILES

VINEYARD GROVE



HS D7 T5

AUTUMN HARVEST



HS D7 T5

CORN SILK



HS D7 T5

HARBOR GREY



ALL

EVEREST



ALL

SCOTTISH THISTLE



ALL

PEBBLESTONE CLAY



ALL

VICTORIAN GREY



ALL

TUSCAN OLIVE



ALL

WICKER



ALL

SANDTONE



ALL

SAGE



ALL

DESERT SAND



ALL

SILVER GREY



ALL

ALMOND



ALL

CLASSIC CREAM



ALL

LINEN



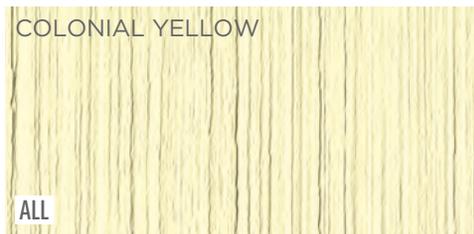
ALL

CAMEO



ALL

COLONIAL YELLOW



ALL

WHITE



ALL

Beauty that lasts a lifetime.

COLORS AND STYLES TO PLEASE EVEN THE MOST PARTICULAR EYE.

HAND-SPLIT SHAKE

Deep, random grooves replicate the rustic look and texture of real cedar shakes.

WEATHERED CEDAR COLLECTION

Subtle shading and variations in color recreate the look of naturally weathered cedar.

SOLID CEDAR COLORS

The look of freshly painted cedar shakes.

PERFECTION SHINGLE

Random gaps and refreshed, realistic rough cedar-grain texture replicate the appearance of real cedar shingles.

WEATHERED CEDAR COLLECTION

Subtle shading and variations in color recreate the look of naturally weathered cedar.

SOLID CEDAR COLORS

The look of freshly painted cedar shakes.



BREATHE EASY

Unlike some fiber cement products, vinyl siding does not produce harmful silica dust — silica dust can cause lung disease.



OIL CAN TEST Siding panels are placed under heat strips and saturated to 120° - 140°F to make sure the siding doesn't warp or buckle.



GLOSS TEST A digital readout microgloss meter is used to scan siding to determine if its gloss falls within a target range. Gloss is important to the aesthetic appeal of the siding.

Backed by Ply Gem's V.I.P.
Limited Lifetime Warranty. See warranty for complete details.

DESIGNED, ENGINEERED AND TESTED for long lasting beauty.



NO PAINT. NO STAIN. NO HASSLES.

Since vinyl doesn't require paint or stain, harmful VOCs aren't released into the atmosphere.

SAVINGS IN PAINTING COSTS OVER TIME



MASTIC SAVINGS ADD UP

Based on an average-size home, repainting or staining can cost up to \$6,000 every four years. Cedar Discovery never needs painting, caulking or patching because, unlike wood, it won't crack, peel, rot or split.



HANG-TOUGH™ TECHNOLOGY

Exclusive formulation and process boosts durability so panels are more resistant to cracking, impact and thermal distortion. As an added benefit, rich color resides throughout the panel — virtually eliminating the appearance of nicks and minor surface scratches.



BREATHE EASY

Unlike some fiber cement products, vinyl siding does not produce harmful silica dust — silica dust can cause lung disease.



TIME-TESTED. CERTIFIED. AND MORE.

Mastic vinyl siding products are certified through the Vinyl Siding Institute (VSI), which sponsors third-party certification to ensure vinyl siding quality. Mastic vinyl siding meets or exceeds ASTM D3679 performance standards for impact resistance, weatherability, product thickness and performance in extreme conditions — all requirements in the VSI certification program.*



V.I.P. LIMITED LIFETIME WARRANTY

Premium guarantee of lasting quality and peace of mind — backed by Ply Gem, a trusted industry leader for 75+ years. See warranty for complete details.

TEST OUR VINYL. WE DO. RIGOROUSLY. RELENTLESSLY.



OIL CAN TEST Siding panels are placed under heat strips and saturated to 120° — 140°F to make sure the siding doesn't warp or buckle.



WEATHERING Color retention (resistance to fading) is tested by subjecting Mastic products to real-time weather conditions and accelerated UV testing. This ensures that Mastic products will hold up in the most extreme environmental conditions.



RIGIDITY Panels are designed and engineered to be more rigid so the siding remains straight on the wall.



COLOR READ TEST Using a spherical spectrophotometer, a 10,000-watt xenon flash tube bounces light off a siding panel. This information is then analyzed to determine if the color falls within accepted ranges for color consistency and match.



VERTICAL HEIGHT IMPACT TEST Measures the product's durability and ability to resist impact forces — the result of proper thickness, formulation and impact modifiers.



GLOSS TEST A digital readout microgloss meter is used to scan siding to determine if its gloss falls within a target range. Gloss is important to the aesthetic appeal of the siding.

*Consult the VSI website at vinylsiding.org for a current list of certified products and colors.

The Perfect Corner™ Corner Post.

Perfectly matches the texture and color of Cedar Discovery Hand-Split Shakes and Double 7" and Triple 5" Perfection Shingles.



PERFECTION SHINGLE DOUBLE 7"
PERFECT CORNER™ CORNER POST



PERFECTION SHINGLE TRIPLE 5"
PERFECT CORNER™ CORNER POST



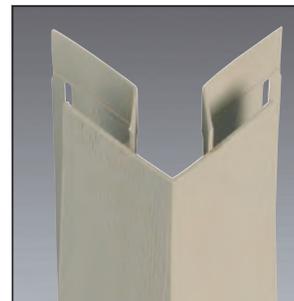
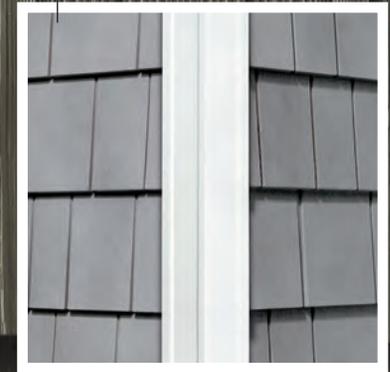
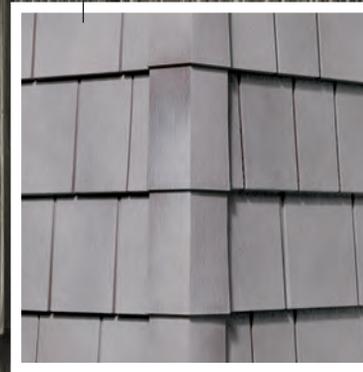
HAND-SPLIT SHAKE
PERFECT CORNER™ CORNER POST

AVAILABLE IN 35 COLORS to perfectly match Cedar Discovery shakes and shingles.

GREAT OPTIONS FOR A PROFESSIONAL FINISH:

THE PERFECT CORNER™ CORNER POST — matches the color and texture of Cedar Discovery panels.

TRADITIONAL CORNER POST OPTIONS — for a traditional look.



THE PERFECT CORNER™ CORNER POST WITH INTEGRATED RECEIVER POCKET

Virtually error-proof: panels slide easily into a recessed pocket — hides uneven edges, speeds installation and enhances aesthetics.

SELF-ALIGNING CORNER POST

Convenient “align-as-you-go” installation — rigid construction aligns to the corner and installs in a snap as you move up the wall.

Designed to absorb the shock of everyday life.

THE CEDAR DISCOVERY FIVE-POINT LOCKING SYSTEM: PEACE OF MIND X 5

PATENTED FULL-PANEL SIDE-LOK™
Slide-in system makes side-to-side locking virtually error-proof for the most secure installation. 4

SURE POSITION LAPPING GAUGE™
Helps ensure perfect panel-to-panel alignment and lapping regardless of temperature extremes during the installation process. 1

C-LOK™ CONTINUOUS LOCKING SYSTEM + PATENTED TORNADO-TOUGH NAIL HEM
Our exclusive continuous snap-in locking system runs the entire length of the panel — and provides up to twice as much support as less reliable “tab-type” systems. 2, 3

Combined with our patented double-thick nail hem, this unbeatable combination provides greater stability and a stronger anchoring surface. The panel mounts securely to the wall, achieving maximum wind resistance.

The end result:
Speedy, accurate and secure installation and superior impact resistance.

WIND SPEED — RATED UP TO 230 MPH
(varies by panel)
Mastic's proprietary design and engineering delivers a panel that achieves superior wind resistance.

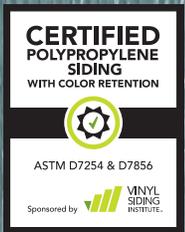
SIDE FLANGE WITH NAIL SLOT
Yet another point of engagement — helps ensure a professional, seamless appearance. 5

FLEX = EASIER INSTALLATION
Panels flex to ease installation in tight places — helps ensure a perfect fit and professional finish.

V.I.P. LIMITED LIFETIME WARRANTY
Premium guarantee of lasting quality and peace of mind — backed by Ply Gem, a trusted industry leader for 75+ years (see warranty for complete details).

There's no cheat sheet for the test of time.

Trusted. Time-tested. Certified.



The Cedar Discovery family of authentic shake and shingle siding has been certified by ASTM D7254 standards to offer superior characteristics for weatherability, impact resistance, windload resistance and flame spread.

This certification shows that a third party has determined that Cedar Discovery siding in solid colors meets or exceeds the industry standards. This determination is accomplished through a series of rigorous tests, unannounced inspections of plants and quality control plan reviews.

Because Cedar Discovery materials are made in the USA, certified to meet or exceed industry standards and covered under the comprehensive Ply Gem V.I.P. Limited Lifetime Warranty, you have peace of mind that the authentic beauty and low-maintenance requirements you enjoy today will last a lifetime.

Details on the certification process are available at polypropylenesiding.org.

ASTM STANDARDS



WEATHER THE ELEMENTS OVER TIME WITHOUT CRACKING, CHIPPING, FLAKING, PITTING, OR PEELING.



MEET IMPACT RESISTANCE REQUIREMENTS.



WITHSTAND WIND PRESSURES EQUIVALENT TO 110 MPH OR MORE.



DEMONSTRATE FLAME SPREAD PERFORMANCE EQUIVALENT TO OR BETTER THAN WOOD MATERIALS COMMONLY USED IN BUILDING CONSTRUCTION.

MASTIC PERFORMANCE



Mastic Cedar Discovery panels are formulated to withstand temperature and weather extremes and will not crack, chip, flake, pit or peel like painted surfaces.



Mastic Cedar Discovery is designed and engineered to withstand impact beyond that required by ASTM D7254.



Mastic Cedar Discovery, with its C-LOK™ continuous locking system and patented tornado-tough nail hem is rated up to 230 mph.



Mastic Cedar Discovery exhibits a flame spread index no more than 200 when tested in accordance to ASTM E84 standard test methods.

*Consult the VSI website at www.vinylsiding.org for a current list of certified products.

A HEALTHY RESPECT FOR THE PLANET — AND OUR CUSTOMERS.



Ply Gem can help you meet your sustainable building goals and earn points in leading green building certification programs. Our products offer features that positively contribute to sustainable practices, improved energy efficiency or lifecycle benefits of homes. All are foundation elements of sustainable building reflected in Ply Gem's Enviro initiative.



For more information on how Mastic products can help you meet your sustainable building goals, refer to our *Building to Make a Difference* white paper available at mastic.com.



SUSTAINABLE RESOURCES:

- Mastic vinyl siding is manufactured from two abundant natural resources: salt (57%) and natural gas (43%).¹
- During the manufacturing process of our vinyl siding, all unused material is reclaimed and reused, creating one of the most efficiently-produced exterior claddings available today.
- The Structure Home Insulation System™ has been third-party verified and Green Circle certified to contribute towards achieving LEED® and NAHB credits, utilizing post-consumer and post-industrial recycled material.
- When installed and used properly, Mastic products never require paint or stain, which reduces VOCs released into the atmosphere.
- Mastic Performance Metals® have been third-party verified and Green Circle certified to contain a minimum of 67% recycled content.
- Ply Gem facilities reuse and recycle pallets and packaging material, reducing raw material needs and landfill use.



ENERGY EFFICIENCY:

- Vinyl siding requires less energy to manufacture per square foot than brick and mortar.²
- Mastic vinyl siding is lighter weight per square than other cladding options, so it requires less fuel to transport. Less fuel used means less pollution.
- When correctly installed, the Structure Home Insulation System™ can reduce thermal bridging and help meet the requirements of an ENERGY STAR® Qualified new home. The Structure Home Insulation System™ in a Double 6" profile has an R-value³ of R-3.0 using the testing method ASTM C1363, as specified by the Federal Trade Commission.
- Mastic Performance Metals® V-Groove soffit and roof and eave vents support proper attic ventilation efforts, which moderates attic temperatures and improves a home's energy efficiency. Mastic V-Groove metal soffit provides the most net free ventilation per linear foot of any aluminum soffit system.

¹ "A Dozen Things You Might Not Know That Make Vinyl Siding Green," page 9, Tad Radzinski, P.E., LEED AP, and VSI. October 10, 2009. <<http://www.vinylsiding.org/greenpaper/>>

² Ibid, page 10

³ R means resistance to heat flow. The higher the r-value, the greater the insulating power.



LIFECYCLE BENEFITS OF HOMES:

- Mastic vinyl siding is durable and requires no site finish. Our Performance Metals® stand up to weather with virtually no maintenance. Our Designer Accents™ use thicker construction and a baked lacquer finish to ensure that they hold up season after season.
- When installed properly and under normal use, our products should never require painting or staining. They won't crack, peel, blister, or rot.
- All of our Performance Metals® aluminum accessories are easily recyclable. In fact, at the end of its lifecycle in building applications, 100% of the aluminum can be recycled.



VINYL SIDING ENVIRO SNAP SHOT:

LEED For Homes — Possible Points

0 61

LEED New Construction — Possible Points

2 26

NAHB Standards — Possible Points

9 - 36 42



Looking for Mastic products with features that can contribute to overall energy savings, lower maintenance and reduced environmental impact? These logos identify products recognized by third parties as supporting green building practices.



Mastic supports green building and it shows. We are active members of both the USGBC and NAHB — two key organizations that are working to define sustainable building practices.



GIVE YOUR HOME THE PERFECT FINISH

The big things like siding and windows make the house, but it's the finishing touches that make it home. So start with the rich texture of shakes or the crisp shadow lines of lap siding, but finish with charming shutters, expertly crafted trim or rustic stone. Creating your dream home exterior can start and finish with Ply Gem. Every product we make is designed to perform and look beautiful together. Because a house is a home when it's **perfectly finished.**



SIDING + ACCESSORIES | WINDOWS + DOORS | STONE VENEER | TRIM + MOULDINGS | FENCE



+ RAILING | ROOFING



Get Started

To get started on your dream home exterior visit mastic.com/getstarted.

① DREAM

DESIGN FIELD GUIDE

A series of amazing exterior transformations that will inspire ideas for your own home.



② ADD COLOR + VISUALIZE

THE INTERACTIVE DESIGN TOOL

Mix and match colors and styles to see how they look together.



③ PREVIEW

DREAMHOME PROFESSIONAL

Use a photo of your home to see a realistic image of a designed exterior on your house. *Ask your builder or remodeler.*





THE PLY GEM PROMISE

Mastic products are backed by Ply Gem — a 75-year leader in pioneering performance home exteriors, with a superior warranty for exactly the home you want for decades to come.



mastic.com
800 962 6973

PLY GEM SIDING GROUP
2600 GRAND BLVD. SUITE 900
KANSAS CITY, MO 64108

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SIDING + ACCESSORIES | WINDOWS + DOORS | STONE VENEER | TRIM + MOULDINGS | FENCE + RAILING | ROOFING



SMARTSIDE®
TRIM & SIDING

**ARCHITECTURAL COLLECTION
CEDAR SHAKE 76 SERIES LAP SIDING**

GENERAL

- At the time of manufacture, siding meets or exceeds the performance standards set forth in Composite Panel Association ANSI 135.6 and has achieved code recognition under Legacy National Evaluation Report NER-626 and CCMC 12353. For copies of these reports, call LP Customer Support at 1-800-648-6893.
- Minimum 6 in. clearance must be maintained between siding and finish grade.
- Siding applied adjacent to porches, patios, walks, etc. must have a clearance of at least 1 in. above any surface.
- Minimum 1" clearance at intersection with roof line
- Apply siding in a manner that prevents moisture intrusion and water buildup.
- All exposed wood substrate must be primed and painted in a manner that prevents moisture intrusion and water buildup.
- In non-traditional ICF and SIP assemblies, the ICF or SIP manufacturer must prescribe the fastening specifications. Note: LP does not recommend LP SmartSide for use in these non-traditional assemblies. If used, LP will not warrant for Buckling and Shrinkage. However, balance of warranty does remain intact.
- DO NOT USE STAPLES
- SIDING MUST NOT BE IN DIRECT CONTACT WITH MASONRY, CONCRETE, BRICK, STONE, STUCCO OR MORTAR.

STORAGE

- Store off the ground well supported, on a flat surface, under a roof or separate waterproof covering
- Keep siding clean and dry. Inspect prior to application.

STUD SPACING

- Siding may be applied over sheathed walls or where building codes permit, directly to studs spaced no greater than 16 in. O.C. that have adequate corner bracing.
- In all installations over masonry or concrete walls, the wall shall be furred out and open at the top and bottom of the wall to allow for convective ventilation between framing spaced 16 in. O.C. The framing shall be of adequate thickness to accept 1-1/2 inches of nail penetration. A properly installed breathable water-resistant barrier is required between the siding and masonry or concrete walls.

MOISTURE

- Moisture control and water vapor control are critical elements of proper housing design. Check your local building codes for application procedures for handling moisture and water vapor in your area.
- When using wet blown cellulose insulation, the insulation must not be in direct contact with the siding and it must be allowed to dry a minimum of 24 hours or longer if specified by the insulation manufacturer.
- As with all wood products, do not apply engineered wood siding to a structure having excessive moisture conditions such as drying concrete, plaster, or wet blown cellulose insulation. If such conditions exist, the building should be well ventilated to allow it to dry prior to the application of the siding.
- Siding must not be applied to green or crooked structural framing members. Do not apply siding over rain-soaked or buckled sheathing materials.
- Gutters are recommended for control of roof water run off.

SECONDARY WATER-RESISTANT BARRIER

- A properly installed breathable water-resistive barrier is required behind the siding. Consult your local building code for details.
- LP will assume no responsibility for water penetration.

GAPS & SEALANTS

- Seal all gaps with a high-quality, non-hardening, paintable sealant. Follow the sealant manufacturer's instructions for application.
- Use a high-quality exterior sealant meeting the ASTM C920, minimum Class 25 sealant.

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.

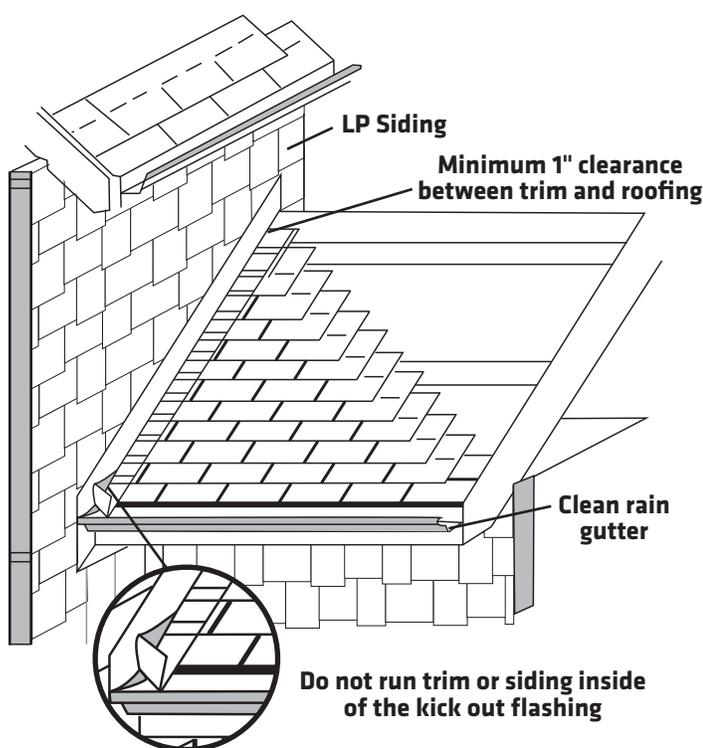
TRIM

Trim should be thick enough so the siding does not extend beyond the face of the trim.

- Trim and fascia must be applied in a manner that will not allow moisture intrusion or water buildup.
- LP® SmartSide® siding is not designed and/or manufactured to be used as trim or fascia. LP SmartSide trim and fascia are available in a variety of dimensions.

KICK-OUT FLASHING

- Install kick-out flashing to direct the water into the gutter
- Install step flashing with minimum 4 in. upper leg
- Properly integrate flashing with the secondary water-resistive barrier. Use housewrap, flashing tape, z-flashing, or other items as needed to maintain the counterflashing principle.
- DO NOT extend the siding or trim into the kick-out flashing or gutter
- Maintain a clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of the siding
- Prime and paint ALL exposed cut edges



FINISHING INSTRUCTIONS

DO

- Prime and paint all exposed surfaces including all drip edges or where water will hang.
- Apply finish coat as soon as possible or within 180 days of application.
- High-quality acrylic latex paint, specially formulated for use on wood and engineered wood substrates, is highly recommended. Semi-gloss or satin finish oil or alkyd paints are acceptable. For flat alkyd paint, please check with the coating manufacturer for their recommendations for use on composite wood siding.
- Follow the coating manufacturer's application and maintenance instructions.

DO NOT USE

- Semi-transparent and transparent stains.
- Shake and shingle paints.
- Vinyl-based resin formulas such as vinyl acetate, PVA, vinyl acetate/acrylic copolymer paints.

HANDLE PREFINISHED LP SMARTSIDE PRODUCTS WITH EXTREME CARE DURING STORAGE AND APPLICATION. TOUCH UP ANY DAMAGE TO THE FINISH THAT MAY OCCUR DURING APPLICATION PER PREFINISHERS SPECIFICATIONS.

NAILING INSTRUCTIONS

- Apply siding to wall assemblies with stud spacing no greater than 16 in. O.C. Fasten the siding at each stud according to the following steps.
- Begin by nailing a starter strip (approximately 3/8 in. x 1-1/2 in.), flush with bottom edge of sill plate.

For random drip edge: Starting from left to right, level and install the first course of siding so random edge is no more than 1/2 in. below the shim. Trim left edge so that siding section fits against corner board, with a 3/16 in. gap, and so that opposite shiplap edge falls on a stud for nailing.

For straight drip edge: Starting from right to left, level and install the first course of siding so straight edge is no more than 1/2 in. below the shim. Trim right edge so that siding section fits against corner board, with a 3/16 in. gap, and so that opposite shiplap edge falls on a stud for nailing.

Use "alignment notch" in shiplap edge as automatic guide to lap each siding course. Lap a minimum of 1-3/4 in. to bottom of notch, as shown. Nail 3/4 in. from bottom edge to penetrate both siding courses.

- Start subsequent courses in same manner but trim each course to effect staggered joints. Best appearance is obtained by trimming second course starter piece 16 in. shorter than the first course and trimming the third course starter piece 32 in. shorter than the first. Repeat this same sequence every three courses.
- DO NOT OVERDRIVE NAILS. Nail head should seat firmly to face of siding, but not be overdriven to distort the siding surface.
- All siding joints must fall on studs.
- **At shiplap edges, double nailing is required.**

CONDITION

CORRECTION

Snug		OK	
Flush		OK	
Visible fiber		Paint	
Countersunk 1/16-1/8 IN.		Apply sealant	
Countersunk more than 1/8 in.		Apply sealant and re-nail	

- Penetrate structural framing or wood structural panels and structural framing a minimum of 1-1/2 in.
- Use hot-dipped galvanized nails with a minimum 0.270 in. diameter head and 0.113 in. diameter shank.
- Nail at all framing members around openings (maximum spacing 16 in. o.c.). Shim, if necessary, to provide solid backing for siding fitted around windows, doors, and at rake cuts on gable ends.
- Climb cut the surface of the siding such that the rotation of the blade cuts downward on the primed or prefinished surface.
- Where siding butts window trim, door casings and masonry, etc. leave a 3/16 in. gap and seal.
- For information on fastening LP SmartSide products in high wind speed areas, refer to ICC-ES Report ESR-1301 or APA Product Report PR-N124.

Insulated Sheathings

LP SmartSide Sidings may be installed over low-compression rigid foam or exterior gypsum. The following precautions must be followed:

- Adequate bracing of the wall in accordance with the International Codes or other ruling building code is required.
- For rigid foam sheathing up to 1 in. (25.4 mm) 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 in. (38.1 mm) fastener penetration into the structural framing.
- For rigid foam sheathing greater than 1 in. (25.4 mm), a minimum 1-1/2 in. (38.1 mm) thick by 3-1/2 in. (88.9 mm) 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 in. O.C. (406 mm) with a minimum nail penetration of 1-1/2 in. (38.1 mm) and a maximum nail spacing no greater than the width of the siding.

Louisiana-Pacific will assume no responsibility for any damage or condition arising from the use of rigid foam or exterior gypsum.

The Louisiana-Pacific Corporation ("LP") LP SmartSide Siding (the "Products") limited warranty (the "Warranty") applies only to structures on which the Products have been applied, finished and maintained in accordance with the published application, finishing and maintenance instructions in effect at the time of application. The failure to follow such application, finishing or maintenance instructions will void the Warranty as to the portion of the Products affected by the variance (the "Affected Products").

LP assumes no liability for any loss or damage sustained by the Affected Products and is expressly released by the purchaser or owner from any such loss or liability.

Any modification of the Warranty's application, finishing or maintenance requirements is void and unenforceable unless approved in writing prior to application by the Siding General Manager or his designee and a member of the LP Legal Department.

For a copy of the warranty or for installation and technical support, visit the LP SmartSide product support Web site at:

www.lpsmartside.com

or for additional support call 800-450-6106.

WARRANTY REMEDIES ARE NOT AVAILABLE IF REQUIREMENTS ARE NOT FOLLOWED.

Cal. Prop 65 Warning: Use of this product may result in exposure to wood dust, known to the State of California to cause cancer.



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NOTE: Louisiana-Pacific Corporation periodically updates and revises its product information. To verify that this version is current, call 800-450-6106.

Roof Flashing Detail

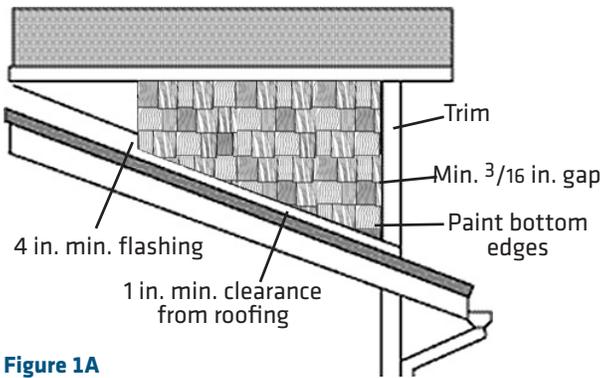


Figure 1A

Joint Treatment

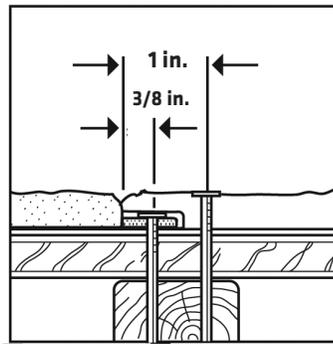


Figure 1B

Over Openings

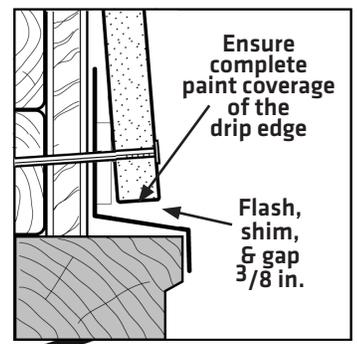


Figure 1C

Figure 1

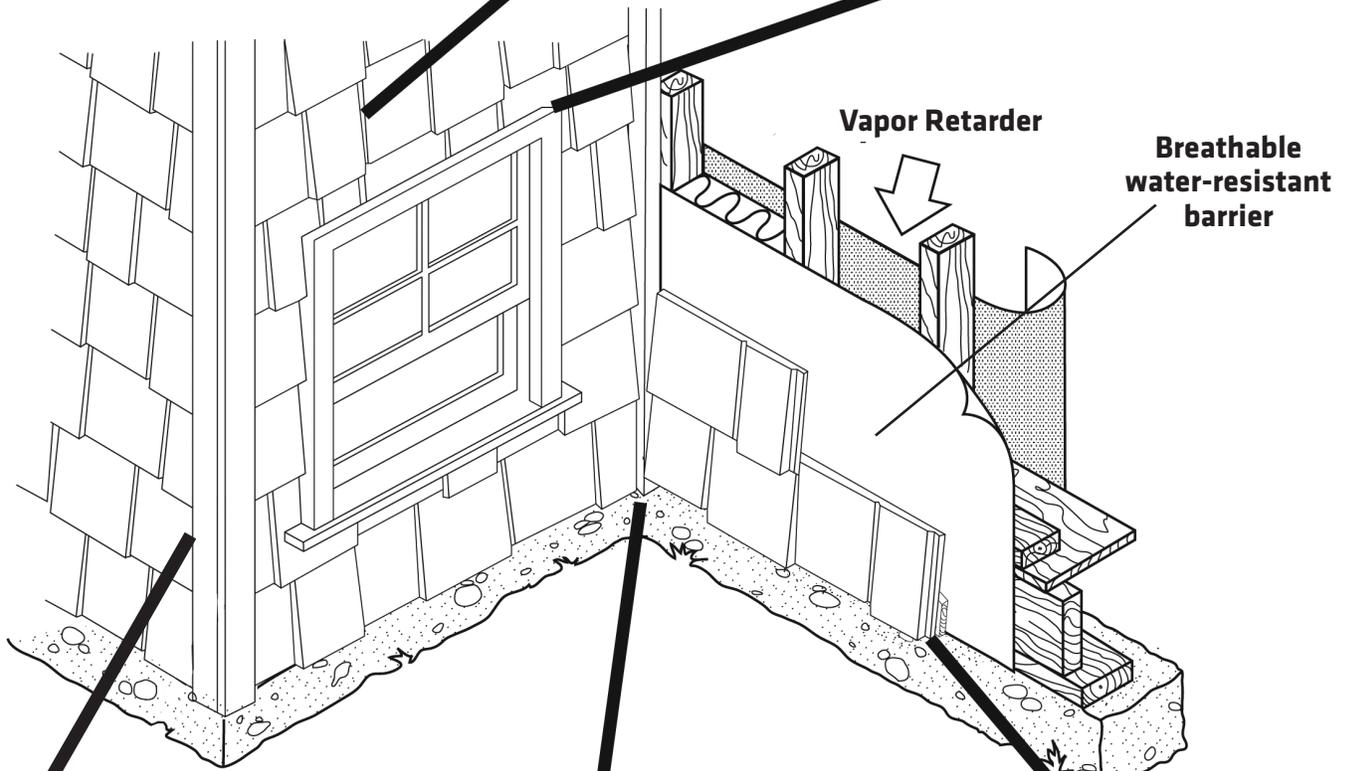
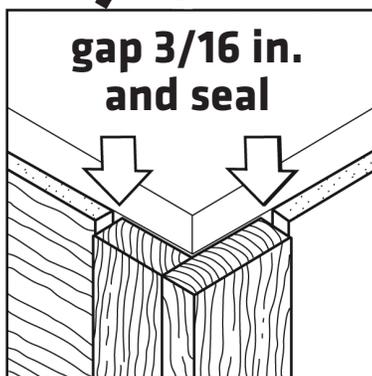


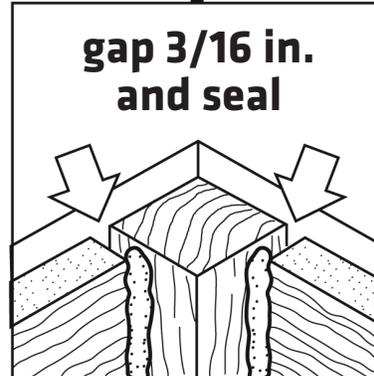
Figure 1F

Figure 1E

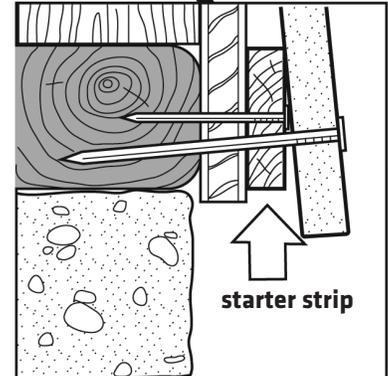
Figure 1D



Outside Corner Detail



Inside Corner Detail



Bottom Course Detail

Figure 2

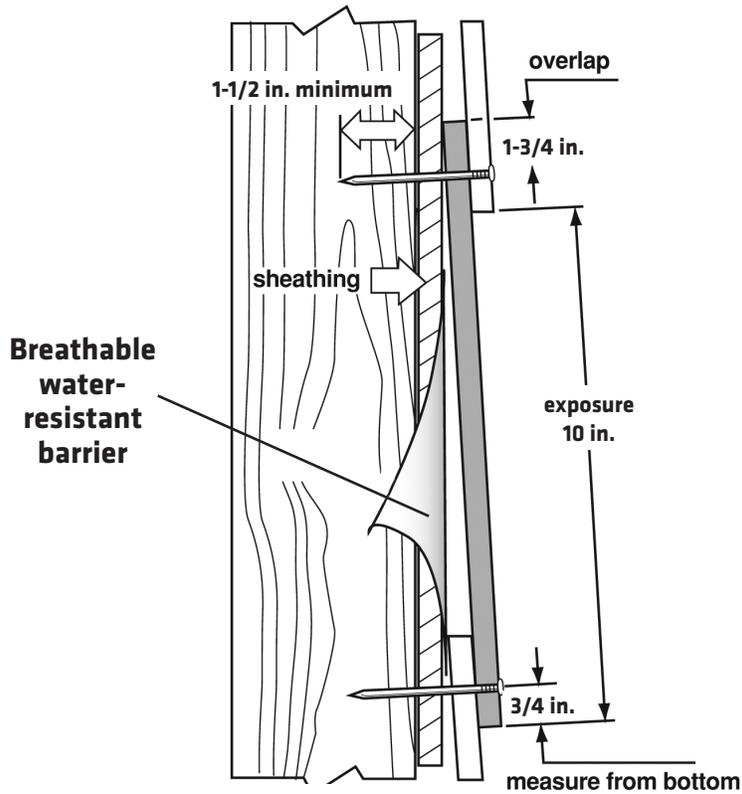
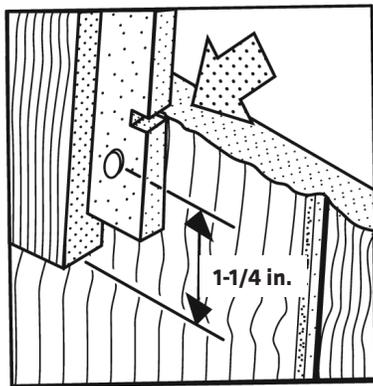


Figure 3



Alignment notch detail

Sheathing and water-resistant barrier

Figure 4

Nailing Detail

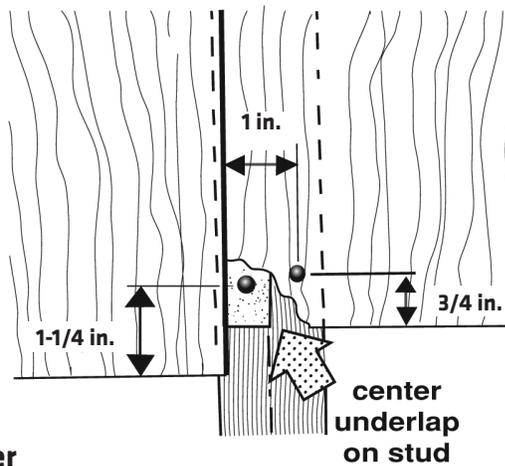
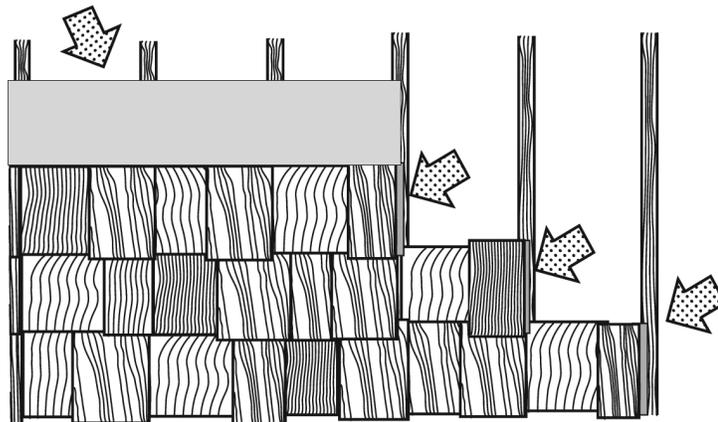


Figure 5



ends of shakes must fall on studs



Shakes require a finish coat like the one shown.

LP

BUILDING PRODUCTS

SMARTSIDE®

TRIM & SIDING

- A truly Reversible shake offers superior design flexibility. The same panel can be used as a staggered edge or a straight edge.
- Fewer pieces per square than fiber cement shakes = less labor and easier to install
- A 5-year, 100% labor and replacement feature and a 50-year prorated, limited warranty on the substrate
- Durable - Made of treated engineered wood, LP SmartSide® products can withstand almost anything Mother Nature throws at them.
- Treated with our proprietary SmartGuard® process to help prevent fungal decay and termite damage
- Pre-primed for exceptional paint adhesion

LP SMARTSIDE

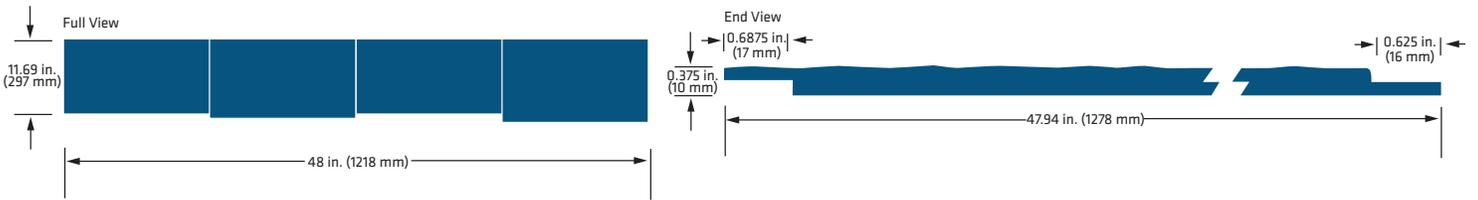
5/50 YEAR
LIMITED
WARRANTY



SMARTSIDE®

TRIM & SIDING

CEDAR SHAKES SPECS



TEXTURE	LENGTH	ACTUAL WIDTH	ACTUAL THICKNESS
TEXTURED	47.94 IN. (1218 MM)	11.69 IN. (297 MM)	0.375 IN. (10 MM)

