

**Michele Gelfman,
President**

CERTIFICATE OF APPROPRIATENESS

ADMINISTRATIVE APPROVAL

The Historic Preservation Commission of South Bend and St. Joseph County has approved the following work:

Replace cedar shake roof on carport with new, in-kind cedar shake roof.

MIDLAND ENGINEERING COMPANY, INC., Contractor
for the following location:

1323 WAYNE ST
South Bend, IN, 46615
East Wayne Street
Application No. 2019-1004

in the County of St. Joseph; State of Indiana; which is:

Located in a Local Historic District Ord No. 7796-87

A Local Historic Landmark East Wayne Street

and found this application to be appropriate according to the Standards pertaining to Local Historic Landmarks and/or Local Historic Districts. Regulations pertaining to the Historic Preservation Commission are found in Chapter 21 (Zoning), South Bend Municipal Code and Chapter 26 of the St. Joseph County Code.

The issuance of this certificate does NOT in any manner, release the recipient from the responsibility of complying with the requirements of the zoning ordinances, building codes, safety codes, ADA or other requirements of the City of South Bend, the County of St. Joseph, the State of Indiana, or the United States Federal Government.

This certificate is good for one year from the date of issuance and is effective from the date entered herein. Plans are on file and open for public inspection at the office of the Historic Preservation Commission of South Bend and St. Joseph County, 227 West Jefferson Blvd., Suite 1400 S, South Bend, Indiana, during normal business hours.

HISTORIC PRESERVATION COMMISSION OF SOUTH BEND AND ST. JOSEPH COUNTY

Phone: (574) 235-9371

E-mail: SBSJCHPC@southbendin.gov

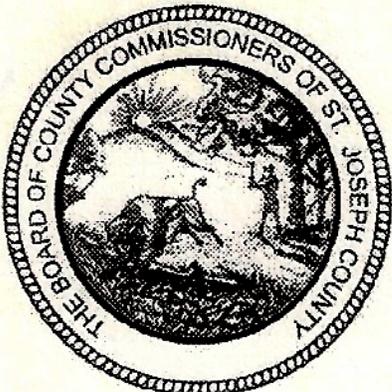
THIS CERTIFICATE IS NOT TRANSFERABLE

NAME OF APPLICANT: Eugene Bamber

DATE CERTIFICATE
TAKES FORCE: 10/4/2019

DATE CERTIFICATE
EXPIRES: 10/4/2020

CERTIFICATE ISSUED BY:
Elicia Feasel
Historic Preservation Administrator



ELICIA FEASEL

**Historic Preservation
Administrator**

POST IN A CONSPICUOUS PLACE ON THE STREET SIDE
OF THE PROJECT UNTIL COMPLETION OF ALL WORK.

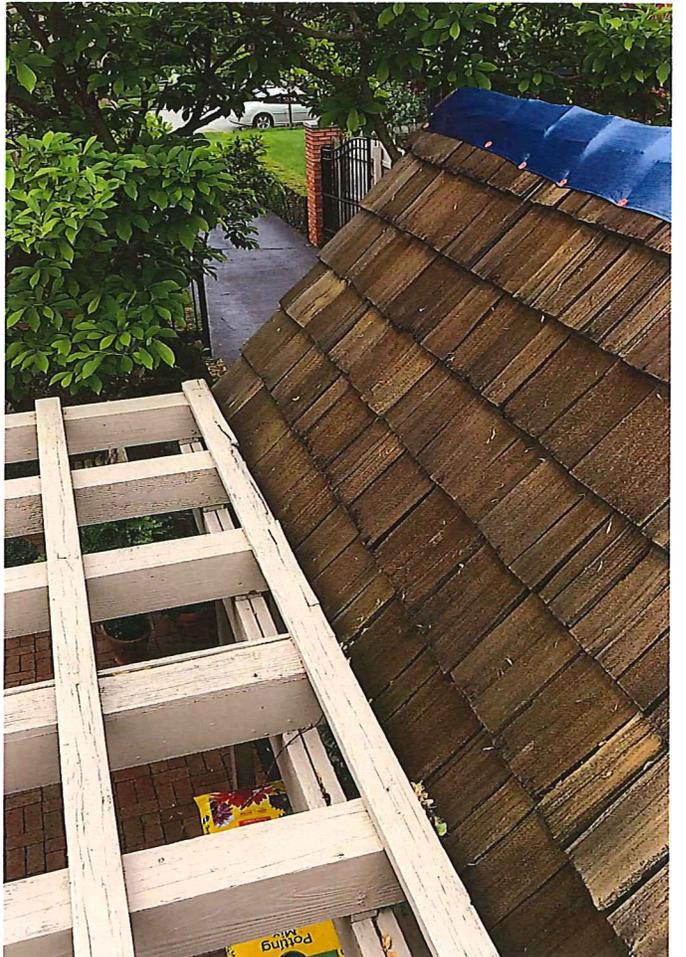
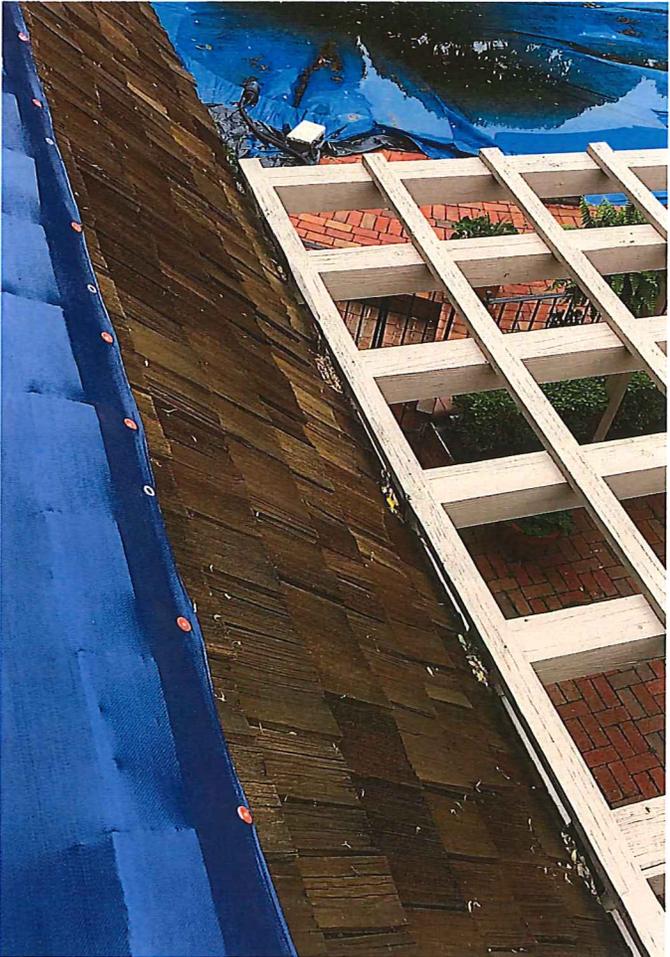
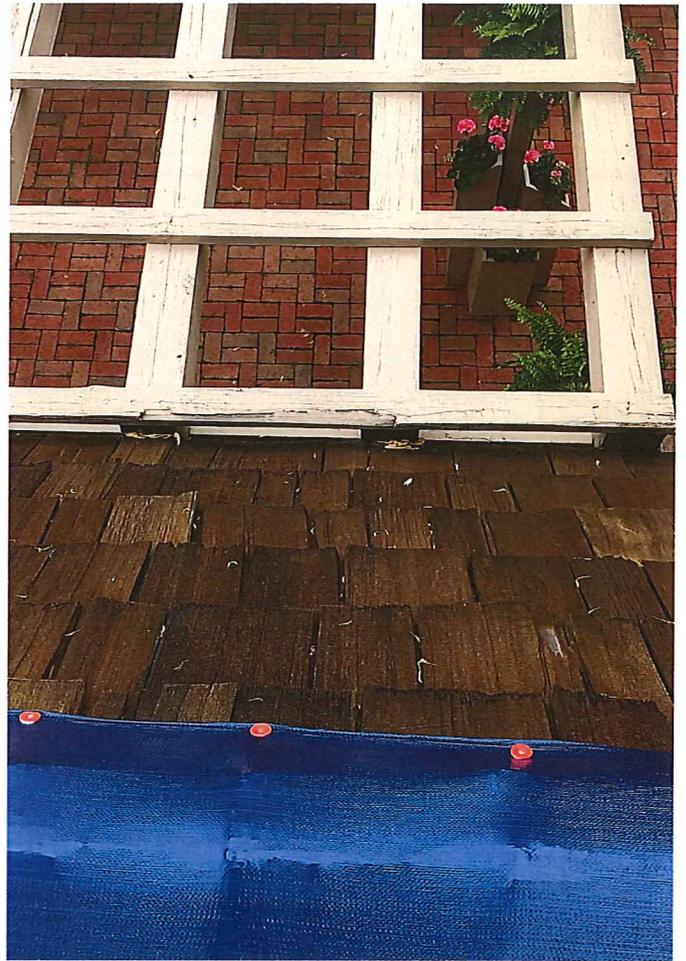
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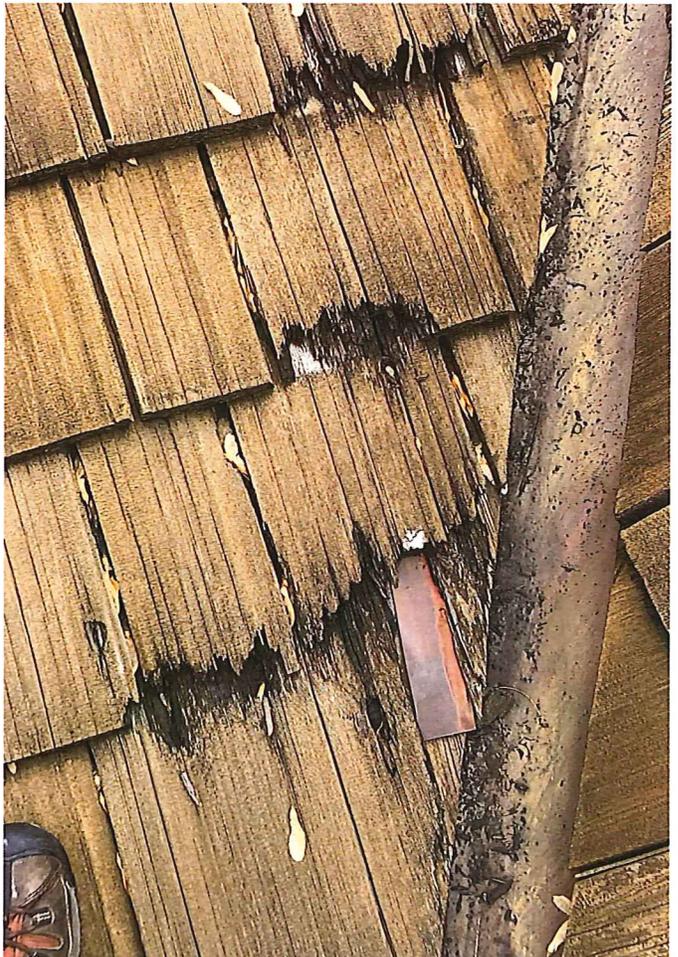
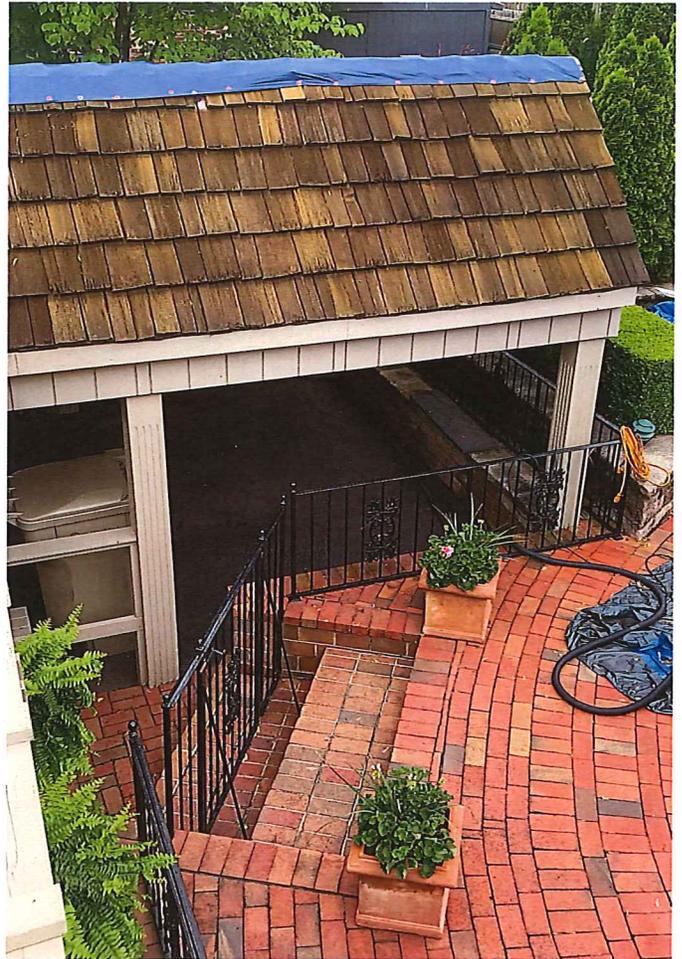
Elicia —

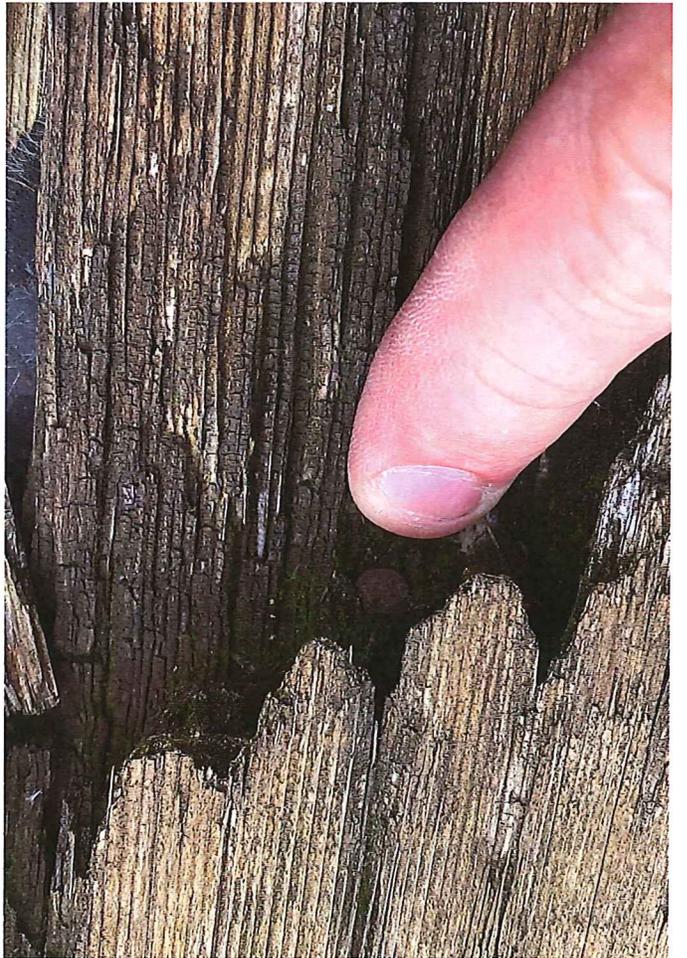
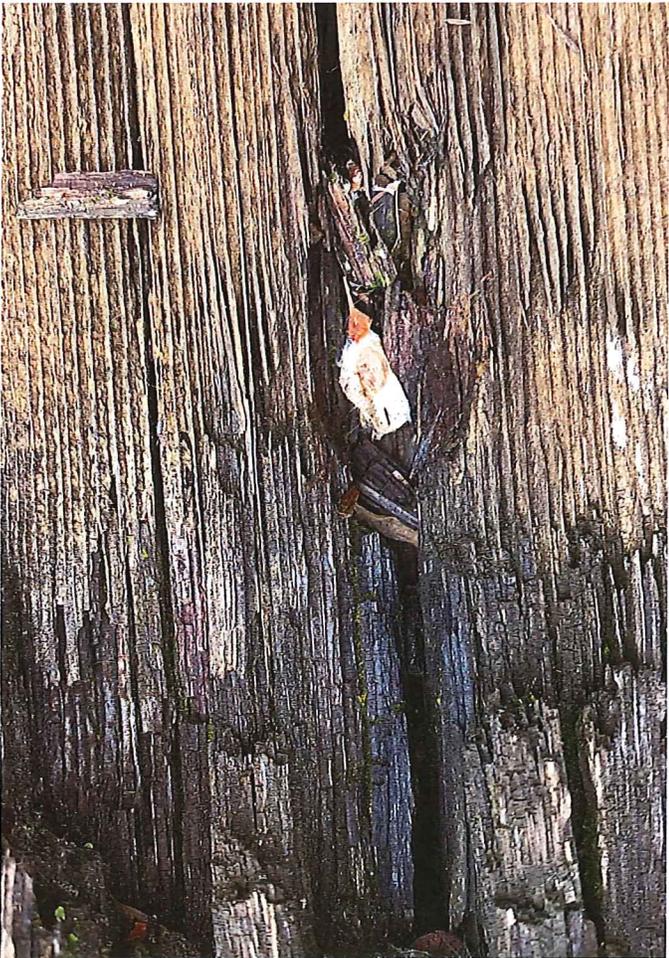
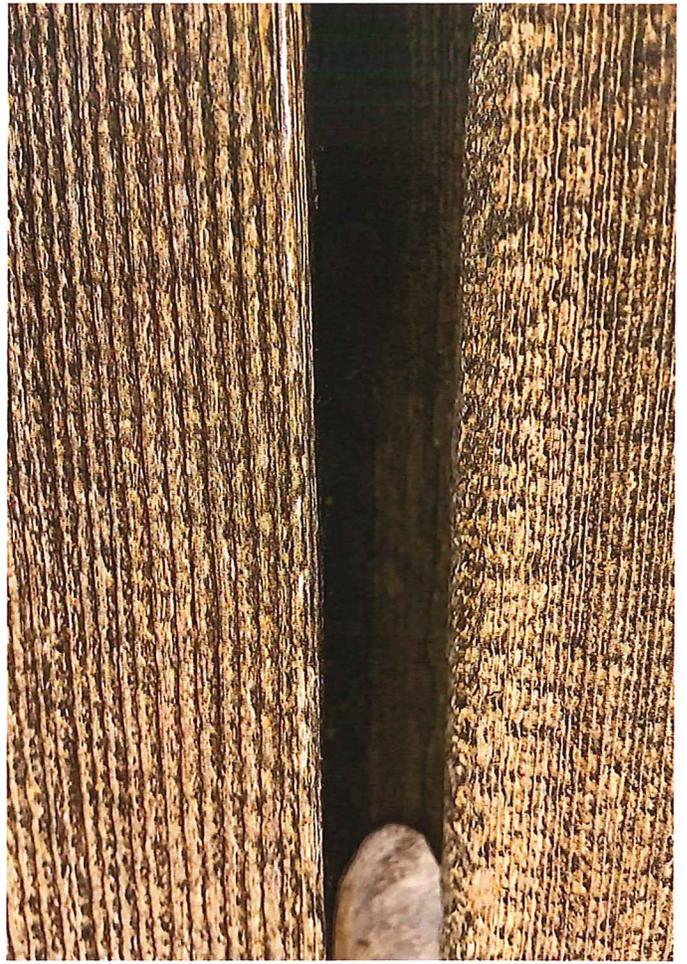
Enclosed is my application for the replacement in kind of the carpet roof and check for \$20⁰⁰. I have been in contact with Matt Spaulding of Midland Engineering (card attached). He mentioned that they have provided to you the material specs etc for the job. I was unaware but perhaps you might have known but their business building, not the warehouse, caught fire and they had severe damage a month ago. But they should be ready to go in early October. Matt mentioned that the workmen to do my work are finishing out at Notre Dame & then be ready to do the carpet when the cert. is approved. Thanks for your help. If you have any questions call me at the store where I'm always at, only a few minutes to home if I need to meet the inspectors there.

Thanks -

Bene











Cedar Shake &
Shingle Bureau

New Roof Construction M A N U A L



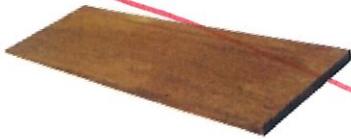
CERTI-LABEL® CEDAR SHAKES

Certi-Split® Handsplit Shakes



These shakes have split faces and sawn backs. Cedar logs are first cut into desired lengths. Blanks or boards of proper thickness are split and then run diagonally through a bandsaw to produce two tapered shakes from each blank. Available in Premium Grade (100% edge grain) or Number 1 Grade (Up to 20% flat grain allowed in each bundle).

Certi-Sawn® Tapersawn Shakes



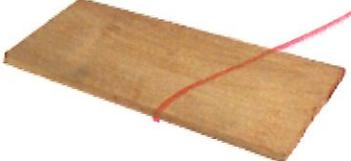
These shakes are sawn both sides. Premium and Number 1 Grades are the most common. Premium Grade is 100% edge grain, 100% clear and 100% heartwood. Number 1 Grade allows up to 20% flat grain in each bundle. Number 2 and 3 Grades are also available.

Certi-Split® Tapersplit



Produced by hand, using a sharp bladed steel froe and a mallet. The natural shingle-like taper is achieved by reversing the block, end-for-end, with each split. Premium Grade only. (100% edge grain)

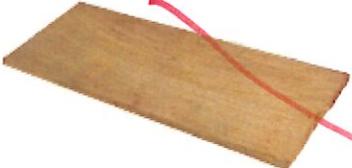
Certi-Split® Straight-Split



Produced by machine or in the same manner as tapersplit shakes except that by splitting from the same end of the block, the shakes acquire the same thickness throughout. Premium Grade only. (100% edge grain)

CERTIGRADE® CEDAR SHINGLES

Number 1 Blue Label®



The premium grade of shingles for roofs and sidewalls. These top-grade shingles are 100% heartwood, 100% clear and 100% edge grain. Available in 16" or 18" or 24" lengths.

Number 2 Red Label



A good grade for many applications. Not less than 10" clear on 16" shingles, 11" clear on 18" shingles and 16" clear on 24" shingles. Flat grain and limited sapwood are permitted in this grade.

Number 3 Black Label



A utility grade for economy applications and secondary buildings. Not less than 6" clear on 16" and 18" shingles, 10" clear on 24" shingles.

Number 4 Undercoursing



A utility grade for undercoursing of double coursed sidewalls only. Not a roofing material and not to be used as a starter course for roofs.

Certi-label® Shakes

A solid deck is recommended in seismic activity, hurricane and tornado regions and in areas where wind-driven snow is encountered. Roofing felt system interlay between the shake courses is required whether the sheathing is spaced or solid. The felt interlay acts as a baffle that prevents wind-driven snow or other foreign material from entering the attic cavity during extreme weather conditions. The felt interlays also increase the roof's insulation value. The felt interlay system forces water to the surface.

If spaced sheathing is used in shake application, the sheathing is usually 1 x 6 boards spaced on centers equal to the weather exposure, (Table 4, Page 20) at which the shakes are to be laid - *but never more than 7 1/2" for 18" shakes and 10" for 24" shakes on roof installations.* When 1 x 4 spaced sheathing is installed at 10" on center, additional 1 x 4 boards must be installed (i.e. maximum allowable spacing is approximately 3 1/2" measured from edge to edge between the sheathing boards). Please note that the only solid sheet sheathing tested with Certi-label® shakes & shingles is plywood. Check with your local building official for plywood thickness/dimensions.

Special care should be taken when installing the felt interlays over spaced sheathing to ensure that an effective baffle is formed (Figure 1). The felt should be applied over the top portion of the shakes and extend on to the spaced sheathing so that the bottom edge of the felt is positioned at a distance above the butt equal to twice the weather exposure.

Certi-label® Shake Application

Shakes, like shingles, are normally applied in straight, single courses. The following application details (Figure 4) must be observed.

1. The starter course may be one or two layers of cedar shingles or shakes overlaid with the desired shake. A 15" shake is made expressly for starter and finish courses.
2. Butts of first course shakes should project 1 1/2" beyond the fascia and approximately 1" over the gable or rake end.
3. The CSSB recommends using an 18" wide strip of No. 30 ASTM D226 Type II or No. 30 ASTM D4869 Type IV roofing felt laid over the top portion of shakes and extending on to the sheathing. (Check with your local building official for exact specifications in

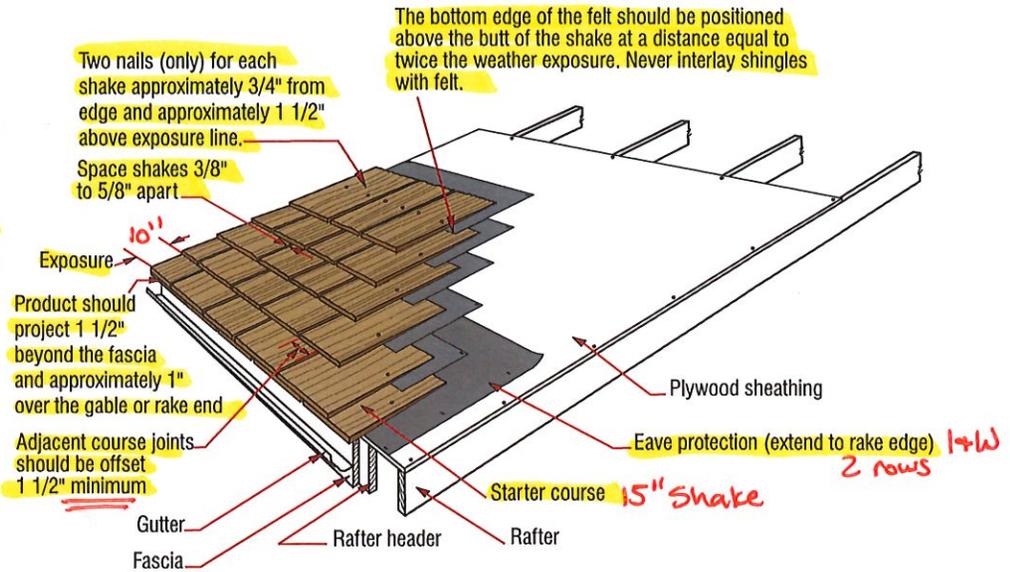


Figure 4: Certi-label® Shake Application

- your area). The bottom edge of the felt should be positioned above the butt of the shake at a distance equal to twice the weather exposure. For example, 24" shakes, felt extends up 14" onto the sheathing forcing water to the surface.
4. Spacing between adjacent shakes should be a minimum of 3/8" and a maximum of 5/8".
 5. Shakes shall be laid with a side lap of not less than 1 1/2" between joints in adjacent courses.

6. Straight-split shakes should be laid with the froe-end (the end from which the shake has been split and which is smoother) towards the ridge.

Notes: See page 19 for high humidity areas.

Currently the only acceptable solid sheathing product tested for use with Certi-label® shakes is plywood.



Architect: Shope Reno Wharton, Photo: Robert Benson

The minimum roof slope on which Certi-label® shakes are recommended is 4:12 and for Certi-label shingles, 3:12. It is possible, however, to apply Certi-label shakes or shingles successfully to solid sheathed roofs of lower slope providing a special method of application is followed (such as Figure 7), however shingles must be applied at a reduced exposure (page 20). Never interlay shingles with felt. The prescribed method provides a double roof on which the Certi-label shakes or shingles are applied to a lattice-like framework embedded in a bituminous surface coating.

A hot mop or similar approved membrane should be applied over the roof deck. Consult your local building official for approved products in your area. With the final hot-mop application 2 x 4 spacers of Western Red Cedar or preservative treated lumber are embedded in the bituminous coating. These spacers are installed over the rafters and extend from eave to ridge. Check with your local building official for their preference in your area.

Next, 1 x 4 or 1 x 6 nailing strips, spaced according to the weather exposure selected for the Certi-label shakes or shingles, should be nailed across the spacers to form a lattice-like nailing base. For example, if 24" shakes are to be installed at a weather exposure of 10", the nailing strips would also be spaced at 10" on centers. When 1 x 4 spaced sheathing is installed at 10" on center, additional 1 x 4 boards must be installed.

Finally, the Certi-label shakes or shingles are applied in the normal manner with a starter course at the eave and felt interlay between each course of shakes (Figure 7).

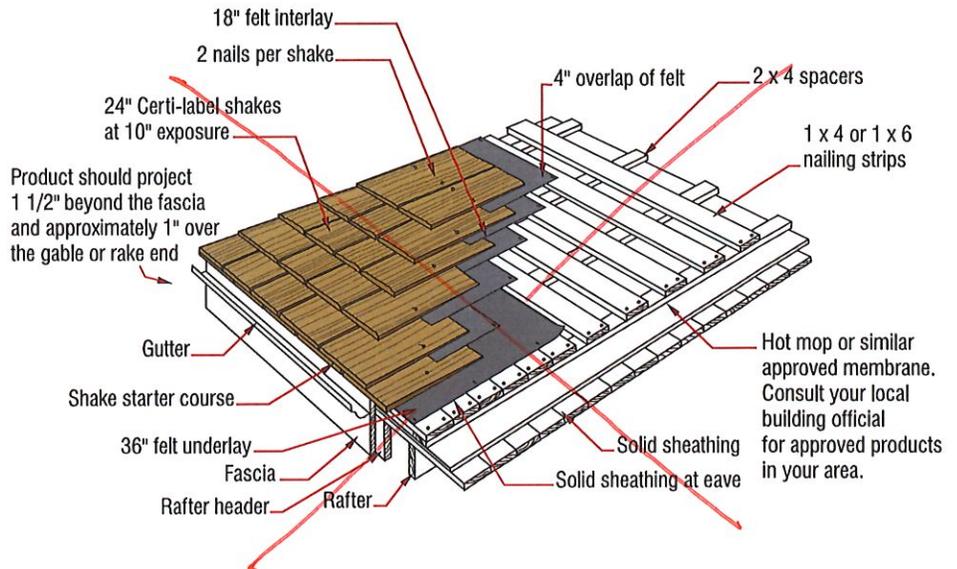


Figure 7: Certi-label® Shake Application to Low Slope Roofs

Note:

- When utilizing a non-permeable barrier (including non-permeable underlayment) over the entire roof deck/sheathing system, consult a Building Envelope Specialist.
- If installing shakes or shingles on roofs having less than 3:12 roof slope, check with your local Building Official for approval.

Certi-label® Hip And Ridge Details

Intersecting roof surfaces at hips and ridges should be capped to ensure a weather-tight joint. Site-made or factory-assembled hip and ridge units may be used, but both types must have alternate overlaps and concealed nailing (Figure 8). When ridge cap and field product are the same length and grade, the weather exposure of the ridge cap should be the same exposure as the field product of the roof. Nails must be longer than those used on the field of the roof and of sufficient length to penetrate 3/4" into or completely through the sheathing. Position fasteners approximately 2" above exposure line. Install a strip of felt, eave protection material or metal over hip or ridge under the ridge or hip cap. If longer or shorter ridge cap is used, adjust exposure accordingly.

Copper Secret Flashing (see shops)

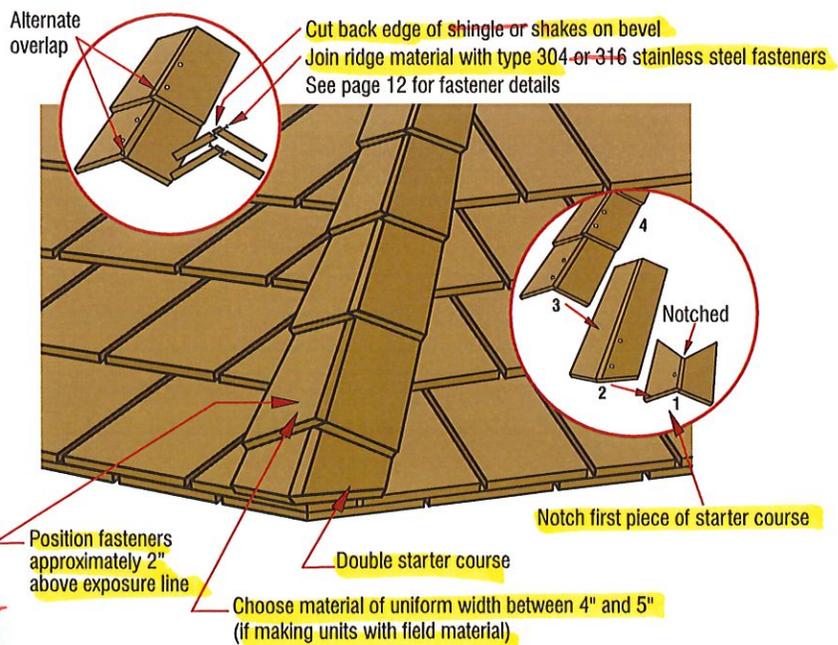


Figure 8: Certi-label® Hip and Ridge Application

Apex Juncture

On this roof juncture (Figure 11) metal flashing should cover the top 8" of the roof and the top 4" of the wall. It should be installed before the final course of Certi-label® shakes or shingles is applied to the wall. The recommended sequence of application is to apply Certi-label shakes or shingles first to the wall then to the roof. The overhanging roof material is then trimmed flush with the wall. Finally, specially prepared ridge units are applied over the wall-roof juncture so that in each matching pair the roof piece overlaps the wall piece each time.

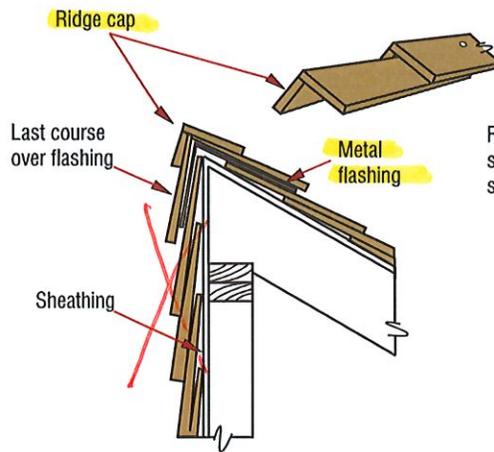


Figure 11: Apex Roof Juncture
"Ridge"

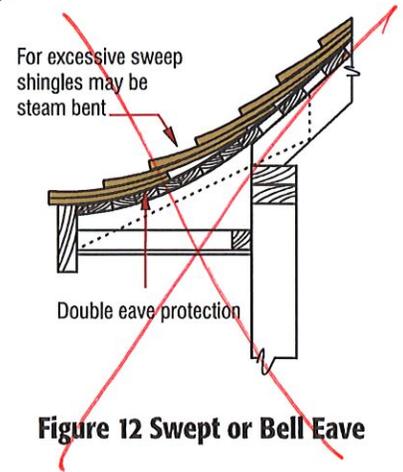


Figure 12 Swept or Bell Eave

Swept or Bell Eave

When Certi-label shakes or shingles are to be applied to a swept or bell eave where the curvature is excessive, it may be necessary to soak them for a period (usually overnight) or steam them prior to installation. A double starter course is employed in the usual manner. Exposure is determined by the slope of the roof and the type of Certi-label shake or shingle selected. At lower pitches waterproof eave protection should be used.

Note: For unusual roof applications contact the Cedar Shake & Shingle Bureau for a list of members who can assist you with specific questions.

ROOF VALLEY FLASHING DETAILS

Roof Valley Flashing Detail

Most roof leaks can occur where water is channelled off the roof or where the roof abuts a vertical wall or chimney. At these points, metal valleys and flashings are used to assist the Certi-label® shakes and shingles in keeping the structure sound and dry.

Structural members that join a roof should also be flashed at all intersecting angles to prevent leakage. Step flashing should extend under the Certi-label shakes and shingles, up the vertical surface, (one flashing installed on each course concealed under the covering course) and should be covered by a second layer of flashing (counter-flashing).

Flashing should be pre-painted both sides using a good metal or bituminous paint (Figure 13a). Flashing strips which must be bent to sharp angles should be painted after bending. Metal flashing with baked-on enamel coating is available in some areas.

Different flashing metals are available in different areas depending on climatic variations. It is good practice to use metals

that have proven their reliability under the specific conditions to be encountered. It is important that metal flashing have the same longevity as Western Red Cedar. Check with your local building official for their preference in your area.

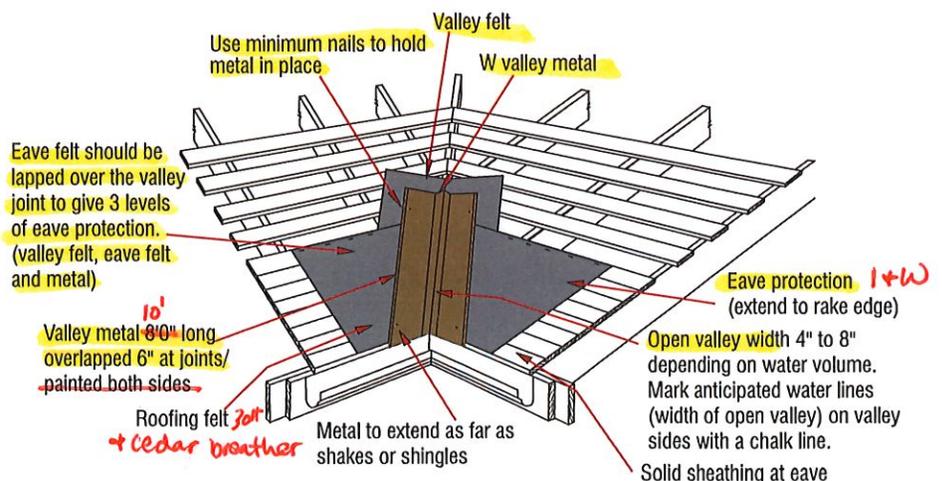


Figure 13a: Valley Metal

Valleys: Certi-label® Shingles

For roofs with slopes of 12:12 or greater, valley flashing should extend not less than 8" on each side of the valley centerline. For roof slopes less than 12:12, flashing should extend not less than 11" each side. Valley metal should be underlaid with No. 30 ASTM D226 Type II or No. 30 ASTM D4869 Type IV roofing felt. Shingles should not be applied with their grain parallel to the valley centerline and those extending into the valley should be cut at the correct angle (Figure 13b).

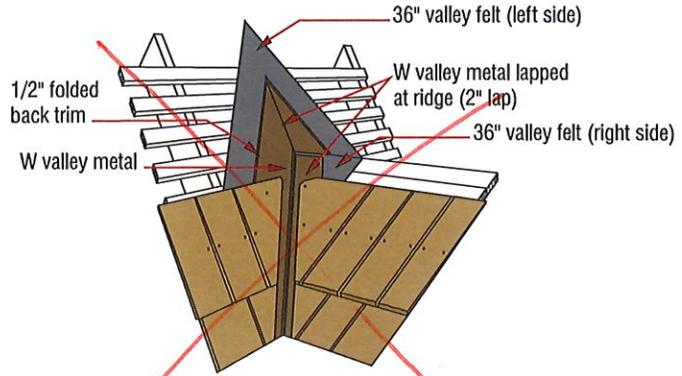


Figure 13b: Typical Saddle Flashing Detail

Valleys: Certi-label® Shakes

On shake roofs, it is recommended that a strip of No. 30 ASTM D226 Type II or No. 30 ASTM D4869 Type IV roofing felt be installed over the sheathing and under the metal valley. Metal valleys should be center-crimped, painted, galvanized steel or aluminum and should extend not less than 11" on each side of the valley centerline. In some areas, however, flashing width requirements may differ and local building codes should be consulted. Shakes should not be applied with their grain parallel to the valley centerline and those extending into the valley should be cut at the correct angle (Figure 13c).

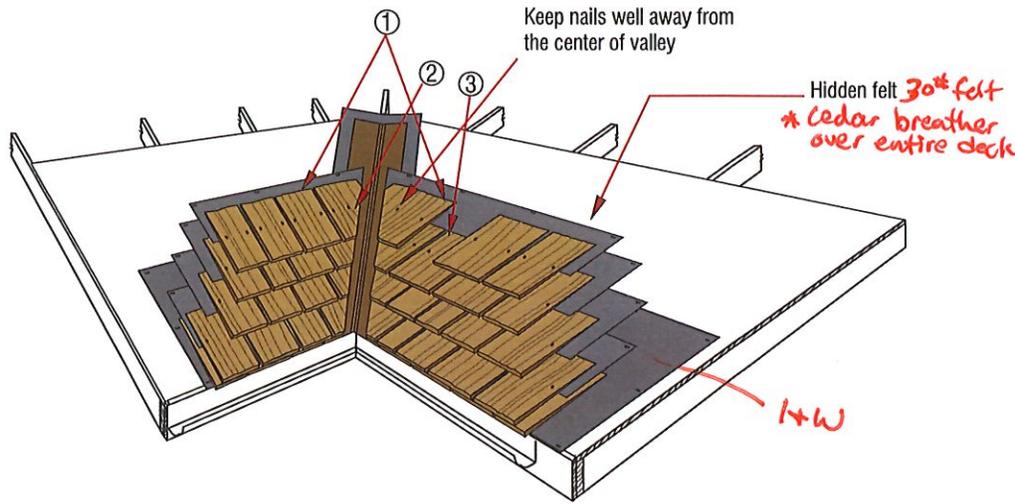


Figure 13c: Valley Product Application

Note: Check with your local building official for minimum gauge/thickness requirement.

- Order of applying Certi-label shakes or shingles at valley:
- 1. Stop course line here
- 2. Place pre-cut valley piece so that cut-angle is positioned on the valley guide chalk line with tip on the course line.
- 3. Select product of the required width to complete the course of Certi-label shakes or shingles.

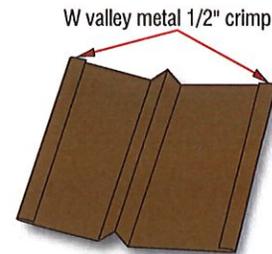


Figure 13d: Roof Valley Flashing Detail
20oz Copper

Figures 13a-13d: Flashing Details for Shake and Shingle Valleys

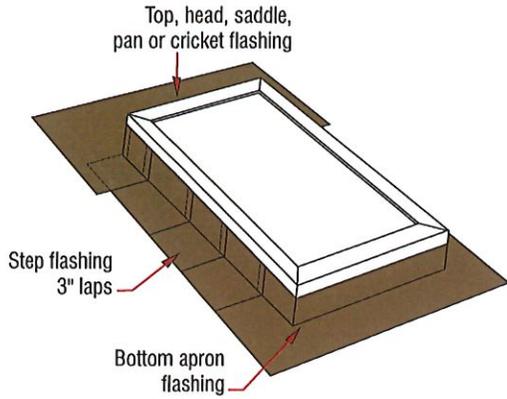


Figure 14a: Skylight Flashing

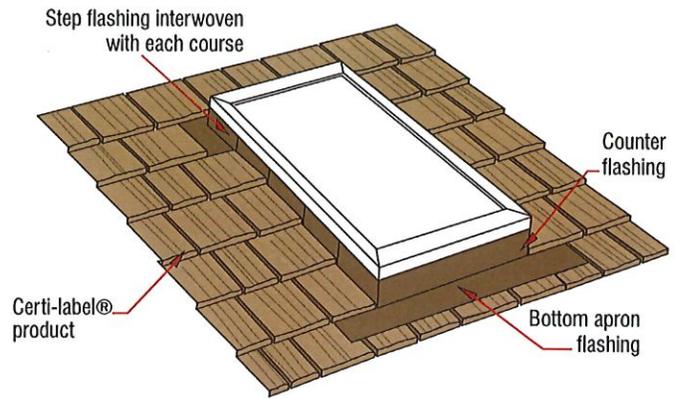


Figure 14b: Skylight Installation

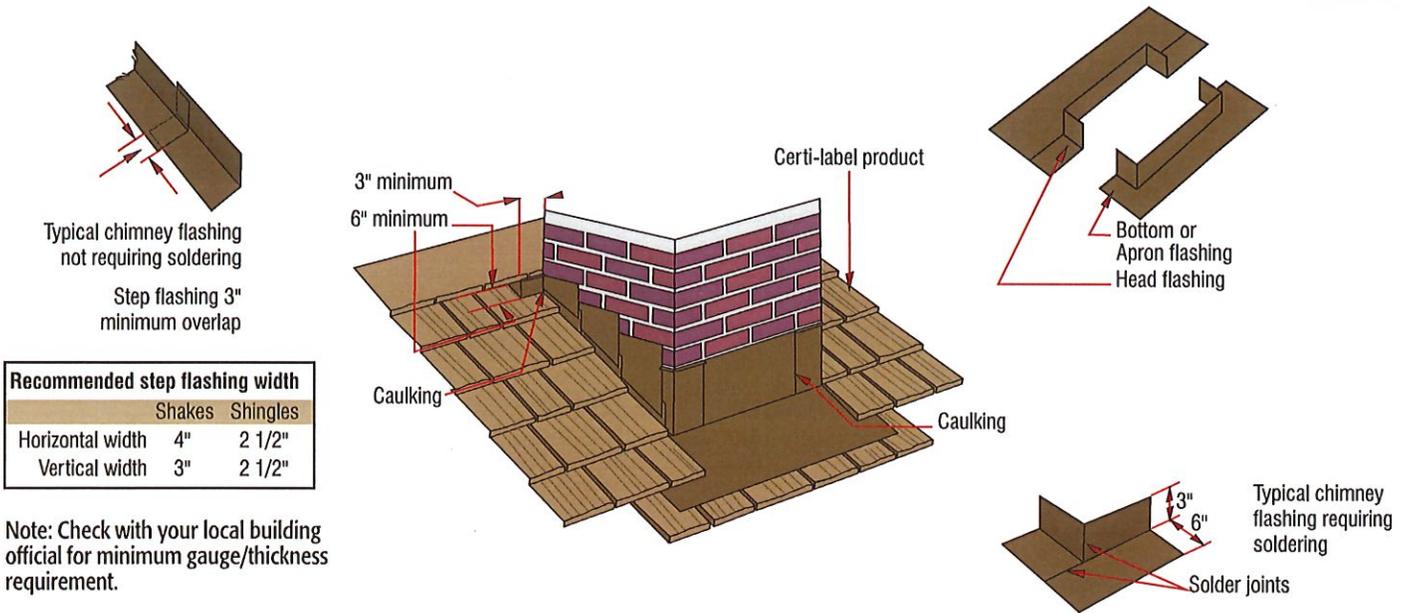


Figure 14c: Typical Projection Flashing

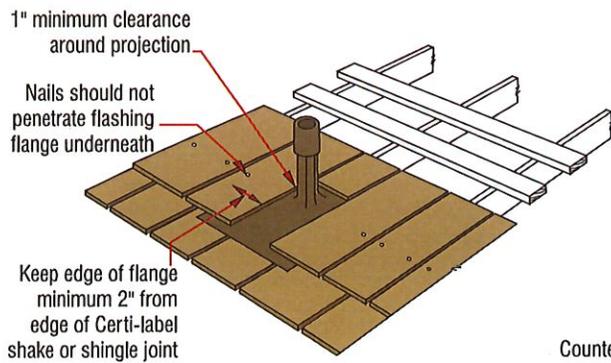


Figure 14d: Typical Projection Flashing

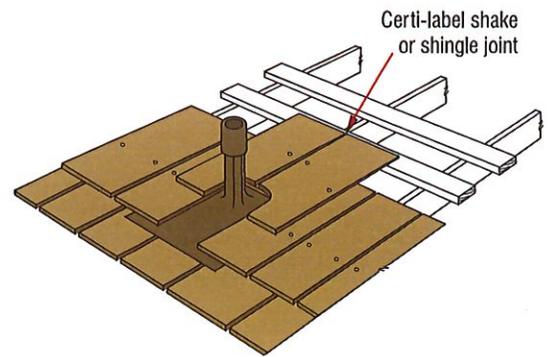
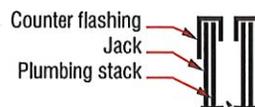


Figure 14e: Typical Projection Flashing



Figures 14a-14e: Flashing Details for Typical Roof Projections

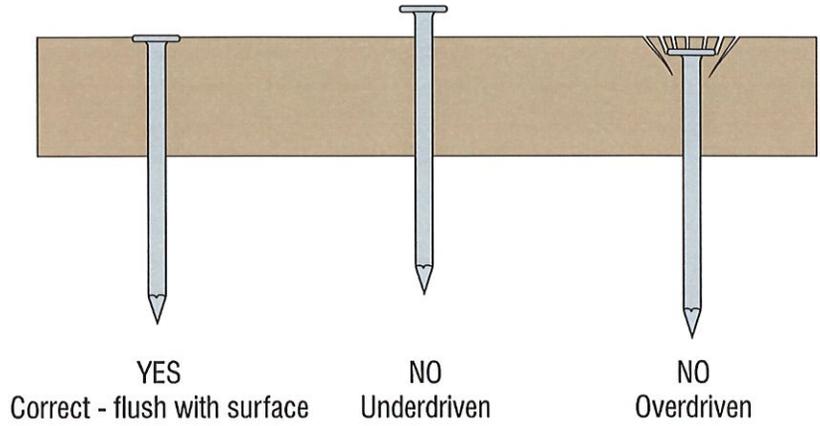
Nails

Each Certi-label® shake or shingle shall be applied with two fasteners. Nails **must be** stainless steel **Type 316** in locations within fifteen (15) miles of salt water. For locations outside the salt water zone - nails **must be** stainless steel, **Type 304**, **Type 316**, or hot-dipped galvanized with a coating weight of ASTM A 153 Class D (1.0 oz/ft²). Stainless steel nails offer the highest degree of corrosion resistance. Some nail manufacturers offer nails specifically for wood shake or shingle roof application. Contact the nail manufacturer for further information to ensure the fasteners used comply with listed requirements and are correct for your application.

Staples

The Cedar Shake & Shingle Bureau® prefers the use of nails, however if you choose to use staples they **must be** stainless steel **Type 316** in locations within fifteen (15) miles of salt water. For locations outside of the salt water zone stainless steel **Type 304** or **Type 316** **must be** used. Each Certi-label® shake or shingle shall be applied with two (2) staples. Staples **must be** 16 gauge with crowns 7/16" minimum horizontal, maximum 3/4" horizontal to the Certi-label shake or shingle butt.

Do not use electro galvanized (EG) fasteners.



Location/Penetration

Fasteners, two (2) per shake or shingle, shall be applied approximately 3/4" from the edge and approximately 1 1/2" above the exposure line. Fasteners shall be long enough to penetrate into the sheathing at least 3/4" or all the way through. Minimum nail lengths are shown in the fastener chart. Nails and staples must be driven flush with the surface of the Certi-label® shake or shingle. Overdriving the fastener can split and/or distort the Certi-label shake or shingle.

Important Notes:

Underdriving or overdriving any fastener will affect the integrity of the roofing system. Fasteners utilized must be specific for use with wood shakes and shingles to prevent splitting and other weakening factors. **Do not use electro-galvanized (EG) fasteners.** Ensure the fasteners used comply with listed requirements.

Pressure Impregnated Treated Shakes and Shingles

Fasteners used with fire-retardant-treated (Certi-Guard®) and preservative-treated (Certi-Last®) shakes or shingles **must be** stainless steel **Type 316**. For specifics on installation, accessory building materials (flashing, etc), finishes and maintenance please contact the treatment company directly. www.cedarbureau.org/purchasing/treaters.asp

The information above is not intended to supersede local building codes.

Fasteners	
Type of Certi-label® Shake or Shingle	Nail Type and Minimum Length
Certi-Split® & Certi-Sawn® Shakes	Type (in)
18" Straight-Split	5d Box 1 3/4
18" and 24" Handsplit and Resawn	6d Box 2
24" Tapersplit	5d Box 1 3/4
18" and 24" Tapersawn	6d Box 2
Certigrade® Shingles	Type (in)
16" and 18" Shingles	3d Box 1 1/4
24" Shingles	4d Box 1 1/2

Note: Longer fasteners of the same quality may be required for nailing ridge product

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CERTI-SPLIT®

NUMBER 1 GRADE

Handsplit Red Cedar Shakes
CEDAR SHAKE & SHINGLE BUREAU
 THE RECOGNIZED AUTHORITY SINCE 1915
 SUMAS WASHINGTON (604) 820 7700

LIFETIME LIMITED WARRANTY AVAILABLE FROM CSSB MEMBER MANUFACTURER BELOW
 WHEN APPLIED BY A CSSB MEMBER CONTRACTOR/INSTALLER

Quality Control Agency Logo	 Cedar Shake & Shingle Bureau Label ID Number	Building Code Standards
Mill Quality Certification Number		Product Testing Numbers

Litho in Canada www.cedarbureau.org Country of Manufacture

Mill Name
 Mill Location
 Mill Phone Number

7 20454 00004 2

ENVIROSMART®

PACKING

HEAVY RESAWS
24" x 3/4"
 (610.0 mm X 19.0 mm)

COVERAGE CHART	
100 sq. ft. (9.30 m ²)	
BUNDLES	EXPOSURE
5	10" (254 mm)

1. The "Certi" Brand Name - Your Quality Assurance
2. Product Grade
3. Product Type
4. Independent, 3rd Party, Quality Control Agency
5. This Number Shows Compliance with Total Quality Manufacturing System
6. Mill Name, Location and Phone Number
7. Industry Product Description

8. Product Dimensions
9. Cedar Bureau Label Number
10. Building Code Compliance Numbers
11. Product Performance Tests Passed
12. Label Identification Number
13. UPC Code
14. Coverage Chart and Recommended Exposure
15. Application Instructions on Reverse Side



**Cedar Shake &
Shingle Bureau**

Contact us for more information:

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Sumas, WA
98295-1178

Canadian Address

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Mission, BC
V2V 7A2

TEL: 604-820-7700

FAX: 604-820-0266

www.cedarbureau.org

info@cedarbureau.com

This manual shows Cedar Shake & Shingle Bureau® recommended procedures as of the manual's print date. It is advisable to contact the Cedar Shake & Shingle Bureau® to ensure that you are using the latest available information.

The CSSB logo® ("C" with shingles/shakes), Blue Label®, Certi-label®, Certigrade®, Certigroove®, Certi-Cut®, Certi-Guard®, Certi-Last®, Certi-Ridge®, Certi-Sawn®, Certi-Split®, Certi-Wood® and EnviroSMART® are registered trademarks of the Cedar Shake & Shingle Bureau®.

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March 2017
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