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As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Owens Corning	Oakridge Shingles	FL 10674-R1/p
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

m mangrason
Contractor OR Agent Signature

7/6/21
Date

NOTES: _____



COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave, Suite B-21, Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

LICENSED QUALIFIER AUTHORIZATION

I, Michelle Cangialosi (license holder name), licensed qualifier
for Worthmann LLC (company name), do certify that

the below referenced person(s) listed on this form is/are contracted/hired by me, the license holder, or is/are employed by me directly or through an employee leasing arrangement; or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are under my direct supervision and control and is/are authorized to purchase and sign permits; call for inspections and sign subcontractor verification forms on my behalf.

Printed Name of Person Authorized	Signature of Authorized Person
1. DJ Hardy	
2.	2.
3.	3.
4.	4.
5.	5.

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances. I understand that the State and County Licensing Boards have the power and authority to discipline a license holder for violations committed by him/her, his/her agents, officers, or employees and that I have full responsibility for compliance with all statutes, codes and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

[Signature] License Number CCC1332820 Date 7/1/21
Licensed Qualifiers Signature (Notarized)

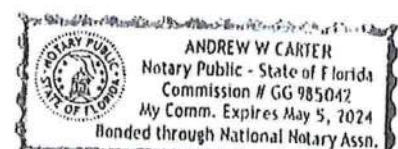
NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Alachua

The above license holder, whose name is Michelle Cangialosi,
personally appeared before me and is known by me or has produced identification
(type of I.D.) N/A on this 6th day of July, 20 21.

[Signature]
NOTARY'S SIGNATURE

(Seal/Stamp)



NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. 28-35-16-02372-432 (9118)

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description of property): LOT 132 ZIMMERMAN LAKES PHASE 4, 514-1147, 835-917, 852-1819, 861-1343,
a) Street (job) Address: 515 Northwest Zack Drive, Lake City, FL 32055 WD 1159-927, WD 1297-2238
2. General description of improvement(s): TEAR OFF EXISTING SHINGLE AND INSTALL NEW SHINGLE ROOF
3. Owner or Lessee information (Lessee as owner only if contracted for improvements)
 - a. Name and address: Melanie Faircloth 515 Northwest Zack Drive, Lake City, FL 32055
 - b. Interest in property: OWNER
 - c. Name and address of fee simple titleholder (if other than owner): _____
4. Contractor Information
 - a. Name and address: Worthmann, LLC 7325 NW 13th Blvd, Suite 88, Gainesville, FL 32653
 - b. Phone number: 352-472-3228 Fax No. (Opt.) N/A
5. Surety Information
 - a. Name and address: _____
 - b. Amount of bond \$ _____
 - c. Phone number: _____ Fax No. (Opt.) _____
6. Lender
 - a. Name and address: _____
 - b. Phone number: _____
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
 - a. Name and address: _____
 - b. Phone number: _____
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
 - a. Name and address: _____
 - b. Phone number: _____

Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified) _____.

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

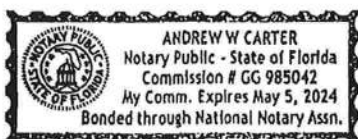
Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have - read the foregoing and that the facts in it are true to the best of my knowledge and belief.

e-Signed by Melanie Faircloth

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager
Signatory's Title/Officer: OWNER

State of Florida
County of Alachua

The foregoing instrument was acknowledged before me this 17th day of June, 2021
by Melanie Faircloth, who is personally known to me or has produced
F624-558-66-584-0, and who did/did not take an oath.
(Driver's License #)



Andrew W. Carter
Signature of Notary
Public - State of Florida
Andrew W. Carter
Print, Type, or Stamp
Commissioned Name of Notary Public

Columbia County Property Appraiser

Jeff Hampton

2021 Working Values

updated: 6/24/2021

Parcel: (<<) 28-3S-16-02372-432 (9118) (>>)

Aerial Viewer Pictometry Google Maps

Owner & Property Info

Result: 1 of 1

Owner	FAIRCLOTH MELONIE T 515 NW ZACK DR LAKE CITY, FL 32055		
Site	515 NW ZACK DR, LAKE CITY		
Description*	LOT 132 EMERALD LAKES PHASE 4. 814-1147, 838-917, 852-1819, 861-1343, WD 1159-927, WD 1297-2238,		
Area	0.54 AC	S/T/R	28-3S-16
Use Code**	SINGLE FAMILY (0100)	Tax District	2

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.

**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2020 Certified Values		2021 Working Values	
Mkt Land	\$18,000	Mkt Land	\$18,000
Ag Land	\$0	Ag Land	\$0
Building	\$97,293	Building	\$104,909
XFOB	\$5,591	XFOB	\$5,591
Just	\$120,884	Just	\$128,500
Class	\$0	Class	\$0
Appraised	\$120,884	Appraised	\$128,500
SOH Cap [?]	\$13,808	SOH Cap [?]	\$19,925
Assessed	\$107,076	Assessed	\$108,575
Exempt	HX H3 \$50,000	Exempt	HX HB \$50,000
Total Taxable	county:\$57,076 city:\$57,076 other:\$57,076 school:\$82,076	Total Taxable	county:\$58,575 city:\$0 other:\$0 school:\$83,575

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Qualification (Codes)	RCode
7/10/2015	\$125,000	1297/2238	WD	I	Q	01
9/29/2008	\$159,000	1159/0927	WD	I	Q	
6/18/1998	\$77,143	0861/1343	WD	I	Q	
1/14/1998	\$0	0852/1819	SW	I	U	01
4/22/1997	\$13,500	0838/0917	WD	V	Q	

▼ Building Characteristics

Bldg Sketch	Description*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	SINGLE FAM (0100)	1997	1307	2248	\$104,909

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

▼ Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims
0166	CONC,PAVMT	1997	\$2,646.00	1764.00	0 x 0
0294	SHED WOOD/VINYL	1997	\$945.00	168.00	12 x 14
0120	CLFENCE 4	2017	\$1,200.00	1.00	0 x 0
0070	CARPORT UF	2017	\$800.00	1.00	0 x 0



OAKRIDGE[®] AND TRUDEFINITION[®] OAKRIDGE SHINGLES

INSTALLATION INSTRUCTIONS

Instrucciones para la instalación



Application Instructions

Before installing this product, check local building codes for roofing requirements.

These shingles are designed for new or reroofing work over any properly built and supported wood roof deck having adequate nail holding capacity and a smooth surface. Must comply with local building codes.

Precautionary Note:

The manufacturer will not be responsible for problems resulting from any deviation from the application instructions and the following precautions:

- **Roof Top Loading:** Lay shingle bundles flat. Do not bend over the ridge.
- **Roof Deck:** Minimum 6 inch roof deck boards, minimum $\frac{3}{8}$ inch plywood, minimum $\frac{7}{16}$ inch OSB, sheathing spaced minimum $\frac{1}{8}$ inch and maximum $\frac{1}{4}$ inch.
Regardless of deck type used, the roofing installer must:
 1. Install the deck material in strict compliance with the deck manufacturer's instructions.
 2. Prevent the wood deck from getting wet before, during and after installation.
- **Ventilation:** Must comply with local building codes.
- **Handling:** Use extra care in handling shingles when the temperature is below 40°F.
- **Storage:** Store in a covered, ventilated area at a maximum temperature of 110°F. Bundles should be stacked flat. Do not store near steam pipes, radiators, etc.
- **Fastener Requirement:** Use galvanized steel, stainless steel or aluminum nails minimum 12 gauge shank with $\frac{3}{8}$ inch diameter head. Owens Corning Roofing recommends that fasteners comply with ASTM F1667. Must comply with local building codes.

All fasteners must penetrate at least $\frac{3}{4}$ inch into the wood deck or completely through the deck by a minimum of $\frac{1}{4}$ inch.

Notice: Owens Corning Roofing requires the use of nails as the method of attaching shingles to wood decking.

Instrucciones para la instalación

Antes de instalar este producto, verifique los códigos de construcción locales para saber cuáles son los requisitos del techo.

Estas tejas están diseñadas para trabajos de techado nuevo o para la reconstrucción de un techo antiguo que posea una plataforma de madera adecuada, con capacidad para sostener clavos y con una superficie lisa. Debe cumplir con los requisitos de los códigos de construcción locales.

Nota de precaución:

El fabricante no se hará responsable por los problemas que puedan resultar de cualquier desviación de las instrucciones para la instalación de las tejas y de las siguientes notas de precaución:

- **Carga en los techos:** Coloque los paquetes de tejas planos. No los doble sobre la cumbrera.
- **Plataforma del techo:** Placas base de madera con un ancho mínimo de 6 pulgadas; revestimiento mínimo de madera contrachapada de $\frac{3}{8}$ pulgadas; paneles de fibra orientada (OSB) de un mínimo de $\frac{7}{16}$ pulgadas; espacio de revestimiento mínimo de $\frac{1}{8}$ pulgadas y máximo de $\frac{1}{4}$ pulgadas.
Cualquiera sea el tipo de estructura base utilizada, el instalador del techo debe:
 1. Instalar el material de la estructura base del techo de manera que cumpla con las instrucciones de instalación del fabricante de dicho material.
 2. Asegurarse de que la estructura base de madera no se moje antes, durante y después de la instalación.
- **Ventilación:** Debe cumplir con los requisitos de los códigos de construcción locales.
- **Manipulación:** Tenga cuidado especial con la manipulación de las tejas cuando la temperatura sea inferior a 40°F.
- **Almacenamiento:** Conserve en un área cubierta y ventilada a una temperatura máxima de 110°F. Los paquetes deben estar apilados sobre sus caras. No las almacene cerca de tuberías de vapor, radiadores, etc.
- **Requisitos de los sujetadores:** Use clavos de acero galvanizado, acero inoxidable o aluminio, de vástago calibre 12 como mínimo y diámetro de cabeza de $\frac{3}{8}$ pulg. Owens Corning Roofing recomienda que los sujetadores cumplan con la norma ASTM F1667. Debe cumplir con los requisitos de los códigos de construcción locales.

Todos los sujetadores deben penetrar al menos $\frac{3}{4}$ pulg. en la estructura de madera o atravesarla completamente un mínimo de $\frac{1}{4}$ pulg.

Aviso: Owens Corning Roofing exige el uso de clavos como método preferido para fijar tejas a plataformas de madera.

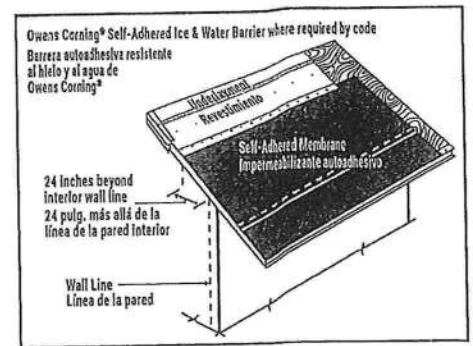
1 Self-Adhered Ice & Water Barrier

Use an Owens Corning® Self-Adhered Ice & Water Barrier on the eaves in all regions of the country where roofs have had a history of ice and water backup. Apply starting at the eaves edge and extend upslope a minimum of 24 inches from the interior wall line. See Fig. 1.

Barrera autoadhesiva resistente al hielo y al agua

Utilice la barrera autoadhesiva resistente al hielo y al agua de Owens Corning® en los aleros de todas las regiones del país en las que los techos estén expuestos a filtraciones por causa de la acumulación de agua y hielo. Para la instalación, comience en el borde del alero y extiéndala hacia arriba un mínimo de 24 pulgadas desde la línea de la pared interior. Ver la Fig. 1.

Fig. 1 Self-Adhered Ice & Water Barrier
Barrera autoadhesiva resistente al hielo y al agua



2 Synthetic Underlayment

Standard Slopes 4:12 and Greater:

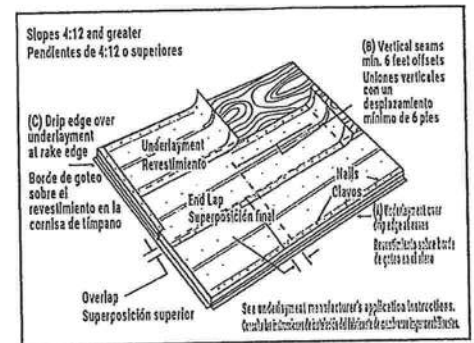
Use an Owens Corning® Synthetic Underlayment or equivalent underlayment meeting ASTM D226, D4869 or D6757. Follow underlayment manufacturer's application instructions and local building codes. See Fig. 2.

Membrana impermeabilizante sintética

Pendientes estándar de 4:12 y mayores:

Use una membrana impermeabilizante sintética Owens Corning® o una membrana equivalente que cumpla con las normas ASTM D226, D4869 o D6757. Siga las instrucciones de instalación del fabricante de la membrana impermeabilizante y los códigos de construcción locales. Ver la Fig. 2.

Fig. 2 Synthetic Underlayment Standard Slope
Membrana impermeabilizante sintética - Pendiente estándar



3 Synthetic Underlayment

Low Slope 2:12 to Less than 4:12:

Use an Owens Corning® Synthetic Underlayment or equivalent underlayment meeting ASTM D226, D4869 or D6757. Underlayment must be installed per the manufacturer's application instructions and local building codes. Each underlayment course must be overlapped a minimum of 1/2 the width of the underlayment plus 1 inch. See Fig. 3.

Or Owens Corning® Self-Adhered Ice & Water Barrier or equivalent with a standard overlap of 3 inches and metal drip edge. See Fig. 3A.

Note: See technical bulletin for felt application.

Membrana impermeabilizante sintética

Pendientes bajas de 2:12 a menos de 4:12:

Use una membrana impermeabilizante sintética Owens Corning® o una membrana equivalente que cumpla con las normas ASTM D226, D4869 o D6757. La membrana impermeabilizante se debe instalar de acuerdo con las instrucciones del fabricante y los códigos de construcción locales. Cada hilera de membrana impermeabilizante debe superponerse un mínimo de la 1/2 del ancho de la membrana más 1 pulgada. Ver la Fig. 3.

O barrera autoadhesiva resistente al hielo y al agua de Owens Corning® o equivalente con una superposición estándar de 3 pulgadas y borde de goteo metálico. Ver la Fig. 3A.

Nota: Para la instalación del fieltro, consulte el boletín técnico.

Fig. 3 Synthetic Underlayment Low Slope
Membrana impermeabilizante sintética - Pendiente baja

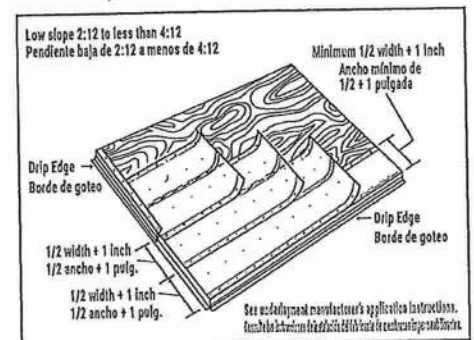
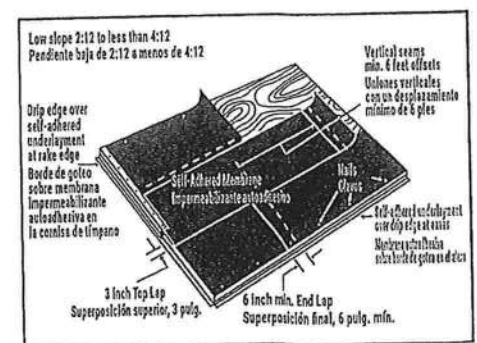


Fig. 3A Self-Adhered Ice & Water Barrier Low Slope
Barrera autoadhesiva resistente al hielo y al agua - Pendiente baja



4

Shingle Fastening Pattern

Place fasteners $6\frac{1}{8}$ inch up from bottom edge of each shingle and 1 inch from each end.

Standard Fastening Pattern:
Use 4 fasteners. See Fig. 4.

Six Nail Fastening Pattern:
Use 6 fasteners. See Fig. 4A.

Mansard or Steep Slope Fastening Pattern:

Place fasteners $6\frac{1}{8}$ inches from bottom edge to secure both layers of the shingle. Fasteners need to be located $6\frac{1}{8}$ inch above the butt edge of the shingle, regardless of whether they are in the granules or nail line. See Fig. 4B.

REQUIRED: For slopes exceeding 60 degrees or 21 inches per foot, use 6 fasteners and 4 spots of asphalt roof cement per shingle. Apply immediately, one 1 inch diameter spot of asphalt roof cement under each shingle tab. Center asphalt roof cement 2 inches up from bottom edge of shingle tab. See Fig. 4B.

Asphalt Roof Cement where required must meet ASTM D4586 Type I or II (Asbestos Free).

Note: Please be aware that excessive amounts of asphalt roof cement could blister the shingle.

Six nail fastening pattern is required for maximum wind warranty. In addition, Owens Corning® Starter Shingles are required along the eaves and rake. See Starter Shingle instructions for details.

Starter Course:

Use an Owens Corning® Starter product. Trim $6\frac{1}{2}$ inches off the rake of the starter course shingle and overhang the drip edge along the rake and eaves edge, $\frac{1}{4}$ to $\frac{3}{4}$ inch, and continue across the roof. Use 5 fasteners for each shingle, placed 2 to 3 inches up from eaves edge. See Fig. 5. If no drip edge is used, shingles must extend a minimum of $\frac{1}{2}$ inch and no more than 1 inch from rake and eaves edge.

Patrón de sujeción de las tejas

Coloque sujetadores a $6\frac{1}{8}$ pulg. del borde inferior de cada teja y a 1 pulg. de cada extremo.

Esquema de sujeción estándar:
Utilice 4 sujetadores. Ver la Fig. 4.

Esquema de sujeción de seis clavos:
Utilice 6 sujetadores. Ver la Fig. 4A.

Esquema de sujeción en mansarda o pendiente pronunciada:

Coloque los sujetadores a $6\frac{1}{8}$ pulg. del borde inferior para asegurar ambas capas de la teja. Los sujetadores deben colocarse a $6\frac{1}{8}$ pulgadas del extremo inferior de la teja, sin importar si es sobre los gránulos o el área de instalación de los sujetadores. Ver la Fig. 4B.

REQUISITOS: En el caso de las pendientes que superen los 60 grados o 21 pulgadas por pie, utilice seis sujetadores y cuatro puntos de cemento asfáltico para techos por teja. Aplique inmediatamente un punto de cemento asfáltico para techos de 1 pulgada de diámetro debajo de cada lengüeta de las tejas. Coloque el cemento asfáltico para techos a 2 pulgadas del borde inferior de la lengüeta de la teja. Ver la Fig. 4B.

En los casos en que se requiera, el cemento asfáltico para techos debe cumplir con la norma ASTM D4586 Tipo I o II (libre de asbesto).

Nota: Tenga en cuenta que una cantidad excesiva de cemento asfáltico para techos puede deformar la teja.

El esquema de fijación de seis clavos es obligatorio para la máxima garantía contra vientos. Además, es necesario instalar las tejas de hilera inicial Owens Corning® a lo largo de los aleros y las cornisas de tímpano. Consulte las instrucciones de las tejas de hilera inicial para obtener más información.

Hilera inicial:

Utilice un producto de hilera inicial para techos de Owens Corning®. Recorte $6\frac{1}{2}$ pulgadas desde la cornisa del tímpano en la teja de la hilera inicial y nivele con el borde de goteo a lo largo de la cornisa y el borde del alero, entre $\frac{1}{4}$ y $\frac{3}{4}$ de pulg., y continúe a través del techo. Utilice 5 sujetadores para cada teja, colocados a una distancia de 2 a 3 pulgadas arriba del borde del alero. Ver la Fig. 5.

Si no utiliza un borde de goteo, las tejas deberán extenderse un mínimo de $\frac{1}{2}$ pulgada y un máximo de 1 pulgada desde la cornisa y el borde del alero.

Fig. 4 Standard Fastening Pattern
Esquema de instalación estándar

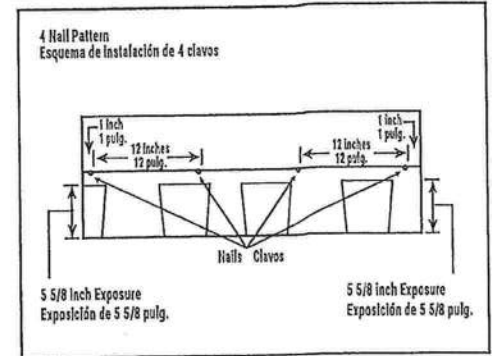


Fig. 4A Six Nail Fastening Pattern
Esquema de instalación con seis clavos

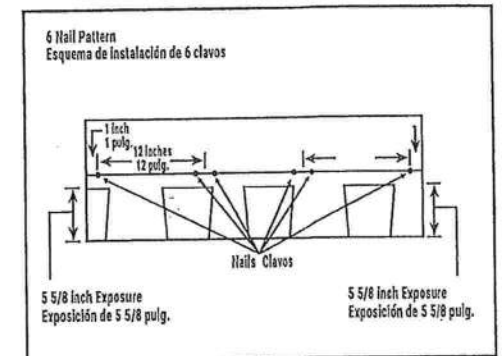


Fig. 4B Mansard or Steep Slope Fastening Pattern
Esquema de instalación en pendientes pronunciadas o mansardos

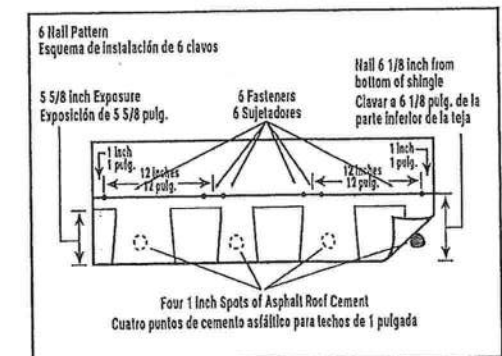
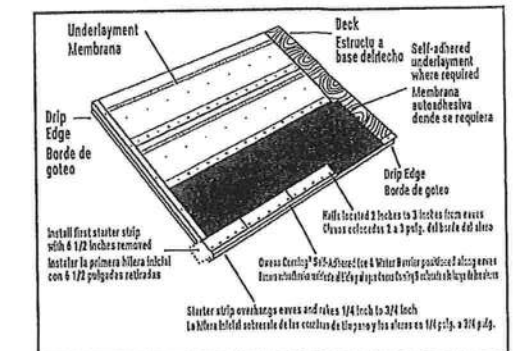


Fig. 5 Starter Strip Shingle Eaves Application
Instalación de las tejas para la hilera inicial en el alero



5

Shingle Application

These shingles are applied with a 6 $\frac{1}{2}$ inch offset, with 5 $\frac{5}{8}$ inch exposure, over prepared roof deck, starting at the bottom of the roof and working across and up. This will blend shingles from one bundle into the next and minimize any normal shade variation. Application with offsets of 4 inches to 8 inches are also acceptable.

Shingles and fasteners must be installed to ensure that end joints are no closer than 2 inches from the fastener in the shingle below and that the offsets are not less than 4 inches in all succeeding courses.

First Course: Apply first course starting with the full shingle even with the starter course. See Fig. 5A. Fasten securely according to fastening instructions. See Fig. 4.

Second Course: Remove 6 $\frac{1}{2}$ inches from the left end of this shingle and apply the remaining piece over and above the first course shingle and flush with edge of the first course with 5 $\frac{5}{8}$ inch exposure. See Fig. 5B. Fasten securely according to fastening instructions. See Fig. 4.

Third Course: Remove 13 inches from the left end of this shingle and apply the remaining piece over and above the second course shingle flush with edge of the second course with 5 $\frac{5}{8}$ inch exposure. See Fig. 5C. Fasten securely according to fastening instructions. See Fig. 4.

Fourth Course: Remove 19 $\frac{1}{2}$ inches from the left end of this shingle and apply the remaining piece over and above the third course shingle and flush with edge of the third course with 5 $\frac{5}{8}$ inch exposure. See Fig. 5D. Fasten securely according to fastening instructions. See Fig. 4.

Fifth Course: Remove 26 inches from the left end of this shingle and apply the remaining piece over and above the fourth course shingle and flush with edge of the fourth course with 5 $\frac{5}{8}$ inch exposure. See Fig. 5E. Fasten securely according to fastening instructions. See Fig. 4.

Sixth Course: Remove 32 $\frac{1}{2}$ inches from the left end of this shingle and apply the remaining piece over and above the fifth course shingle and flush with edge of the fifth course with 5 $\frac{5}{8}$ inch exposure. See Fig. 5F. Fasten securely according to fastening instructions. See Fig. 4.

Succeeding Courses: For succeeding courses, repeat first through sixth course. See Fig. 5G.

Instalación de las tejas

Estas tejas se instalan con un desplazamiento de 6 $\frac{1}{2}$ pulgadas y un área expuesta de 5 $\frac{5}{8}$ pulgadas, sobre estructuras base de techos preparados, comenzando en la parte inferior del techo y realizando la instalación de forma transversal y hacia arriba. De esta manera, las tejas de un paquete se mezclarán con las del siguiente y se reducirán al mínimo las variaciones normales de tonalidad. También se pueden instalar tejas con un desplazamiento de 4 a 8 pulgadas.

Es necesario instalar las tejas y los sujetadores para garantizar que las uniones de los extremos no queden a menos de 2 pulgadas del sujetador de la teja que está debajo y que las superposiciones laterales no sean de menos de 4 pulgadas en las hileras siguientes

Primera hilera: Instale la primera hilera comenzando con una teja completa, nivelada con la hilera inicial. Ver la Fig. 5A. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Segunda hilera: Quite 6 $\frac{1}{2}$ pulgadas del extremo izquierdo de esta teja y aplique la pieza restante sobre y por encima de la teja de la primera hilera, nivelando con el borde de la primera hilera con un área expuesta de 5 $\frac{5}{8}$ pulgadas. Ver la Fig. 5B. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Tercera hilera: Quite 13 pulgadas del extremo izquierdo de esta teja y aplique la pieza restante sobre y por encima de la teja de la segunda hilera, nivelando con el borde de la segunda hilera con un área expuesta de 5 $\frac{5}{8}$ pulgadas. Ver la Fig. 5C. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Cuarta hilera: Quite 19 $\frac{1}{2}$ pulgadas del extremo izquierdo de esta teja y aplique la pieza restante sobre y por encima de la teja de la tercera hilera, nivelando con el borde de la tercera hilera con un área expuesta de 5 $\frac{5}{8}$ pulgadas. Ver la Fig. 5D. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Quinta hilera: Quite 26 pulgadas del extremo izquierdo de esta teja y aplique la pieza restante sobre y por encima de la teja de la cuarta hilera, nivelando con el borde de la cuarta hilera con un área expuesta de 5 $\frac{5}{8}$ pulgadas. Ver la Fig. 5E. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Sexta hilera: Quite 32 $\frac{1}{2}$ pulgadas del extremo izquierdo de esta teja y aplique la pieza restante sobre y por encima de la teja de la quinta hilera, nivelando con el borde de la quinta hilera con un área expuesta de 5 $\frac{5}{8}$ pulgadas. Ver la Fig. 5F. Sujete firmemente de acuerdo con las instrucciones de sujeción. Ver la Fig. 4.

Hileras siguientes: Para las hileras siguientes, repita los pasos de la primera a la sexta hilera. Ver la Fig. 5G.

Fig. 5A Shingle Application
Instalación de tejas

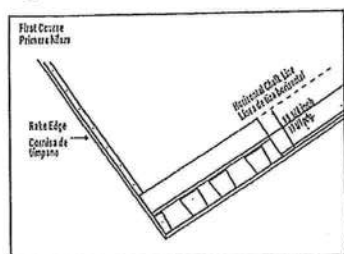


Fig. 5B Shingle Application
Instalación de tejas

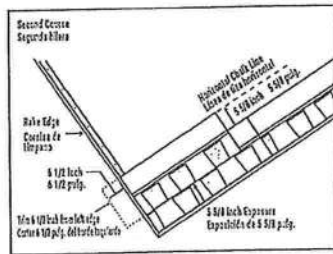


Fig. 5C Shingle Application
Instalación de tejas

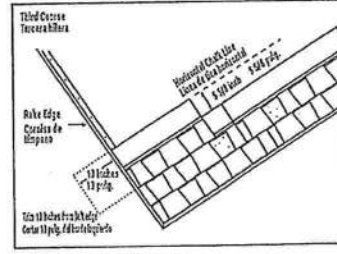


Fig. 5D Shingle Application
Instalación de tejas

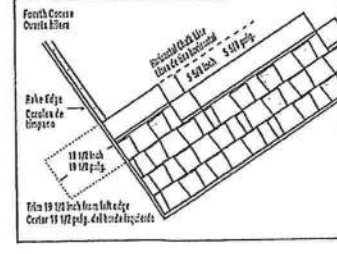


Fig. 5E Shingle Application
Instalación de tejas

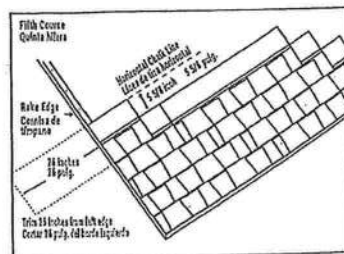


Fig. 5F Shingle Application
Instalación de tejas

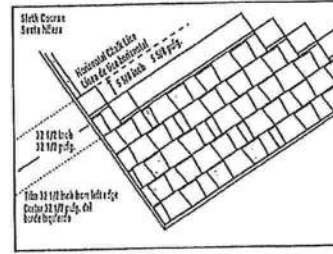
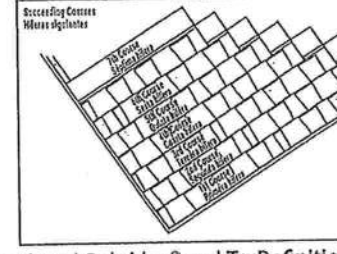


Fig. 5G Shingle Application
Instalación de tejas



Valley Construction

Closed-Cut Valley:

A closed-cut valley can be used as an alternative to woven and open valley and is applied as follows:

- Lay a 36 inch wide valley liner of self-adhered membrane underlayment or equivalent. A 36 inch wide minimum 50 lb. smooth surface roll roofing can also be used as a valley liner.
- Lay all shingles on one side of valley and across center-line of valley a minimum of 12 inches.
- Fasten a minimum of 6 inches away from center-line on each side of valley.
- Strike a chalk line 2 inches from the center-line of the unshingled side.
- Apply shingles on the unshingled side up to the chalk line and trim, taking care not to cut the underlying shingles.
- Clip upper corner of these shingles and install a 3 to 4 inch wide, continuous bead of roofing cement.
- Press shingles firmly into cement. Both woven and metal valleys are acceptable alternatives. See Fig. 6.

For California-Cut Valley, see technical bulletin at www.owenscorning.com.

Construcción de limahoyas

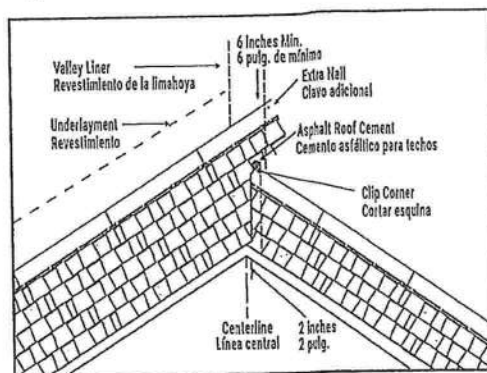
Limahoya con corte cerrado:

Es posible usar como alternativa una limahoya con corte cerrado en lugar de una limahoya entramada o descubierta, y se instala de la siguiente manera:

- Coloque un revestimiento de limahoya de 36 pulgadas de ancho de impermeabilizante autoadhesivo o su equivalente. También es posible utilizar como revestimiento de limahoya un rollo para techos de superficie lisa de 50 libras con un ancho mínimo de 36 pulgadas.
- Coloque todas las tejas en un lado de la limahoya y atravesando la línea central de la limahoya un mínimo de 12 pulgadas.
- Sujete a una distancia mínima de 6 pulgadas de la línea central a cada lado de la limahoya.
- Con una tiza, trace una línea a 2 pulgadas de la línea central del lado que no tenga tejas.
- Coloque las tejas sobre el lado que no tenga tejas hasta llegar a la línea de tiza y haga un recorte cuidando de no cortar las tejas que se encuentran por debajo.
- Recorte la esquina superior de estas tejas e instale una tira continua de 3 a 4 pulgadas de ancho de cemento asfáltico.
- Presione firmemente las tejas contra el cemento. Es aceptable utilizar tanto limahoyas metálicas como tejidas. Ver la Fig. 6.

Para una limahoya con corte cerrado tipo California, consulte el boletín técnico en www.owenscorning.com.

Fig. 6 Closed-Cut Valley Construction
Construcción de limahoya con corte cerrado



7

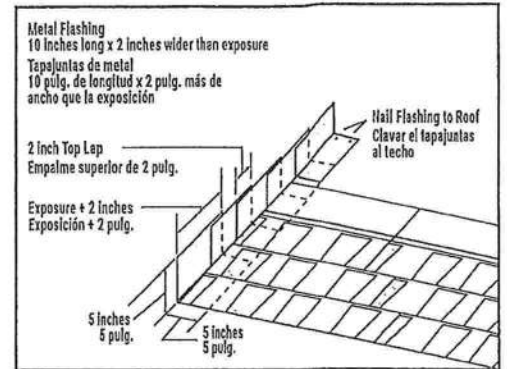
Step Flashing

Use 10 inches long and 2 inches wider than expected exposure corrosion-resistant metal where roof planes butt against vertical sidewalls or chimneys. Check local building codes. For additional flashing details, go to www.owenscorning.com. See Fig. 7.

Tapajuntas escalonado

Utilice metal resistente a la corrosión con una exposición de 10 pulgadas de longitud y de 2 pulgadas más de ancho que la exposición esperada en los puntos en los que los planos del techo se unen a las paredes laterales verticales o a chimeneas. Consulte los códigos de construcción locales. Para obtener más información sobre tapajuntas, visite www.owenscorning.com. Ver la Fig. 7.

Fig. 7 Step Flashing
Tapajuntas escalonado



8

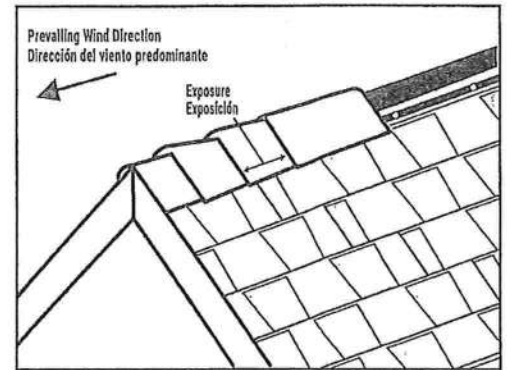
Hip & Ridge Application

Use corresponding Owens Corning® Hip & Ridge Shingles to best complement shingle color. Follow specific application instructions as printed on the Hip & Ridge Shingle package. See Fig. 8.

Instalación de limatesa y cumbrera

Use las tejas de limatesa y cumbrera Owens Corning® apropiadas para complementar el color de las tejas. Siga las instrucciones específicas de instalación que se indican en el paquete de tejas de limatesa y cumbrera. Ver la Fig. 8.

Fig. 8 Hip & Ridge Application
Instalación de limatesa y cumbreras





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