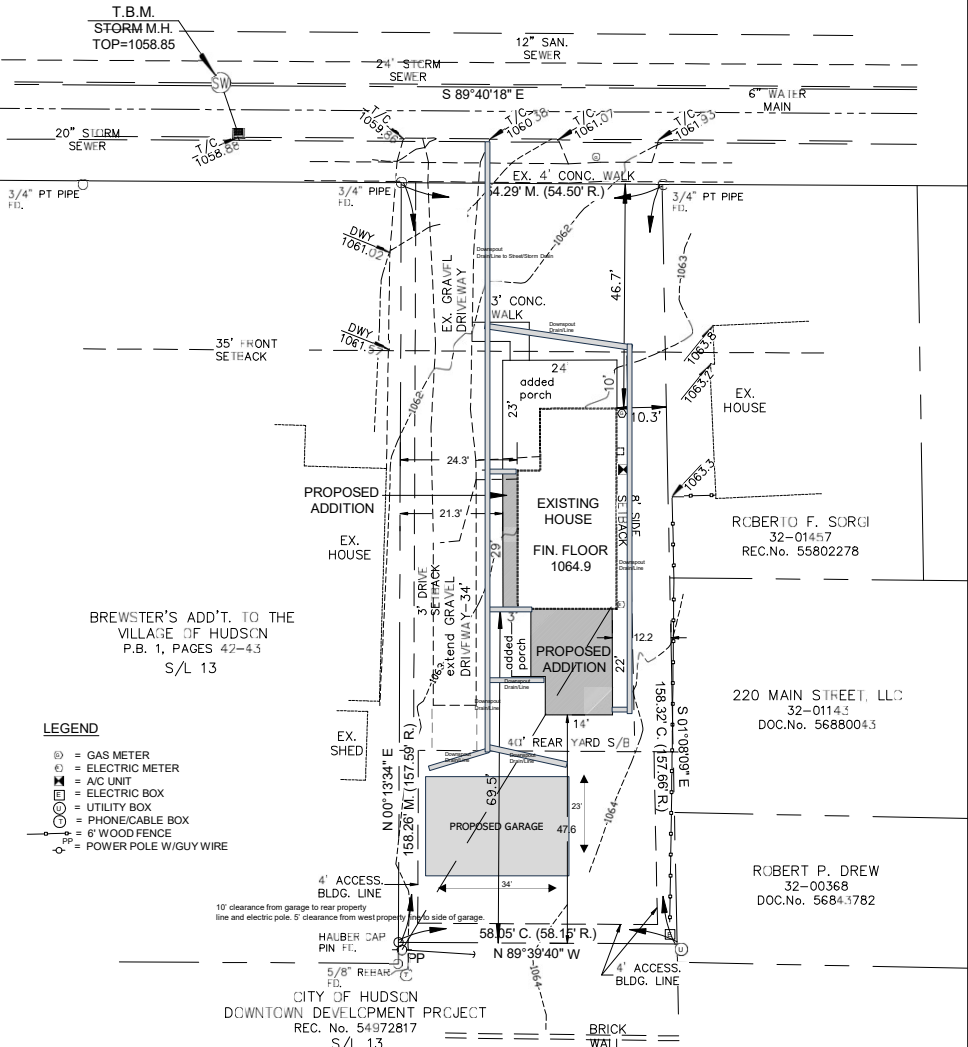


OWEN BROWN STREET 40'



- LEGEND**
- ⊙ = GAS METER
  - = ELECTRIC METER
  - ⊠ = A/C UNIT
  - ⊞ = ELECTRIC BOX
  - ⊞ = UTILITY BOX
  - ⊞ = PHONECABLE BOX
  - PP = 6' WOOD FENCE
  - ⊕ = POWER POLE W/GUY WIRE

IMPERVIOUS SURFACE CALCULATION TOTAL  
 LOT AREA = 8,890 S.F.  
 ALLOWABLE IMPERVIOUS SURFACE AREA = 3,556 S.F. (40%)  
 CURRENT IMPERVIOUS SURFACE AREA  
 (includes proposed garage and driveway) = 3,282 S.F. (36.91%)  
 DATE : 1-30-25  
 DATE : 3-04-25



I HEREBY CERTIFY THAT I HAVE SURVEYED THE LAND SHOWN ON THIS PLAT AND THAT THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND SHOWN HEREON.

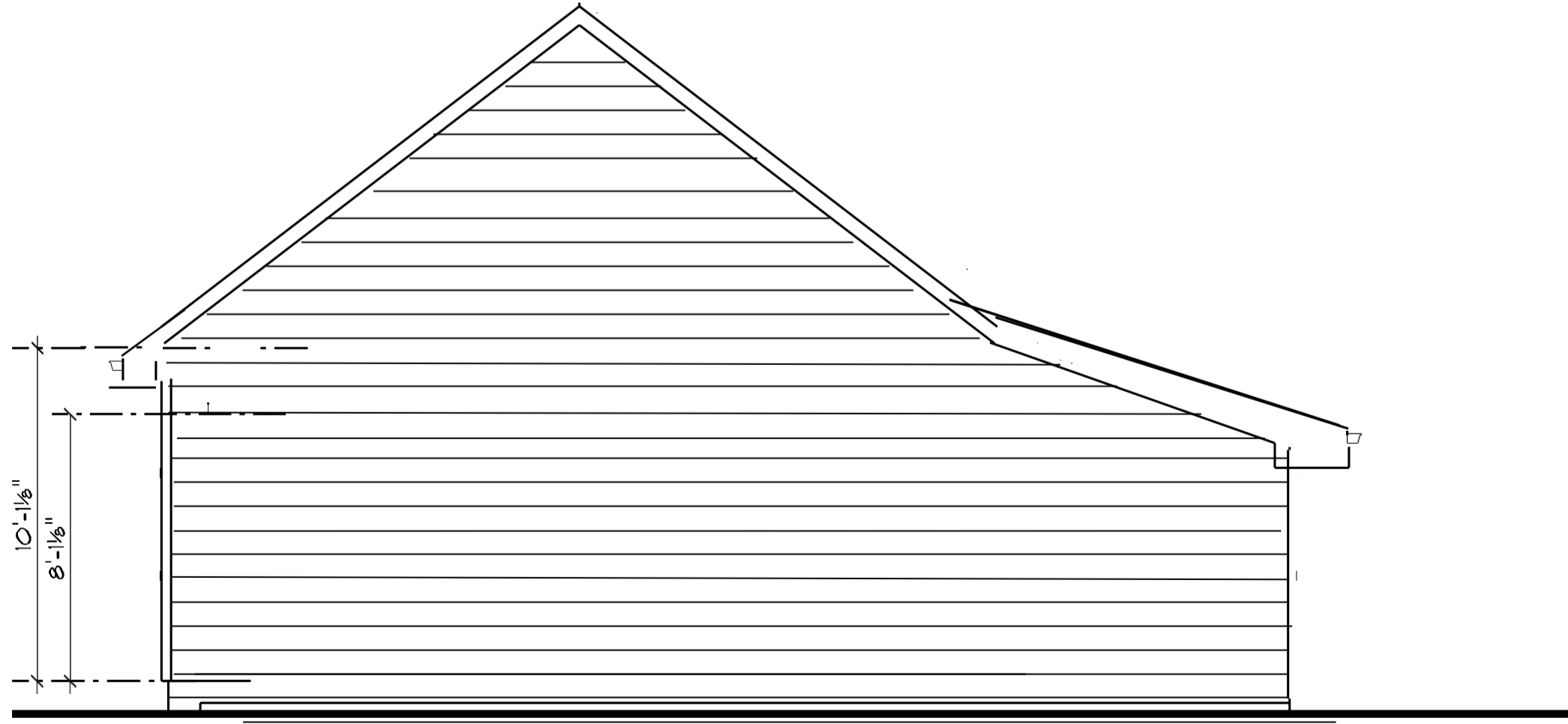
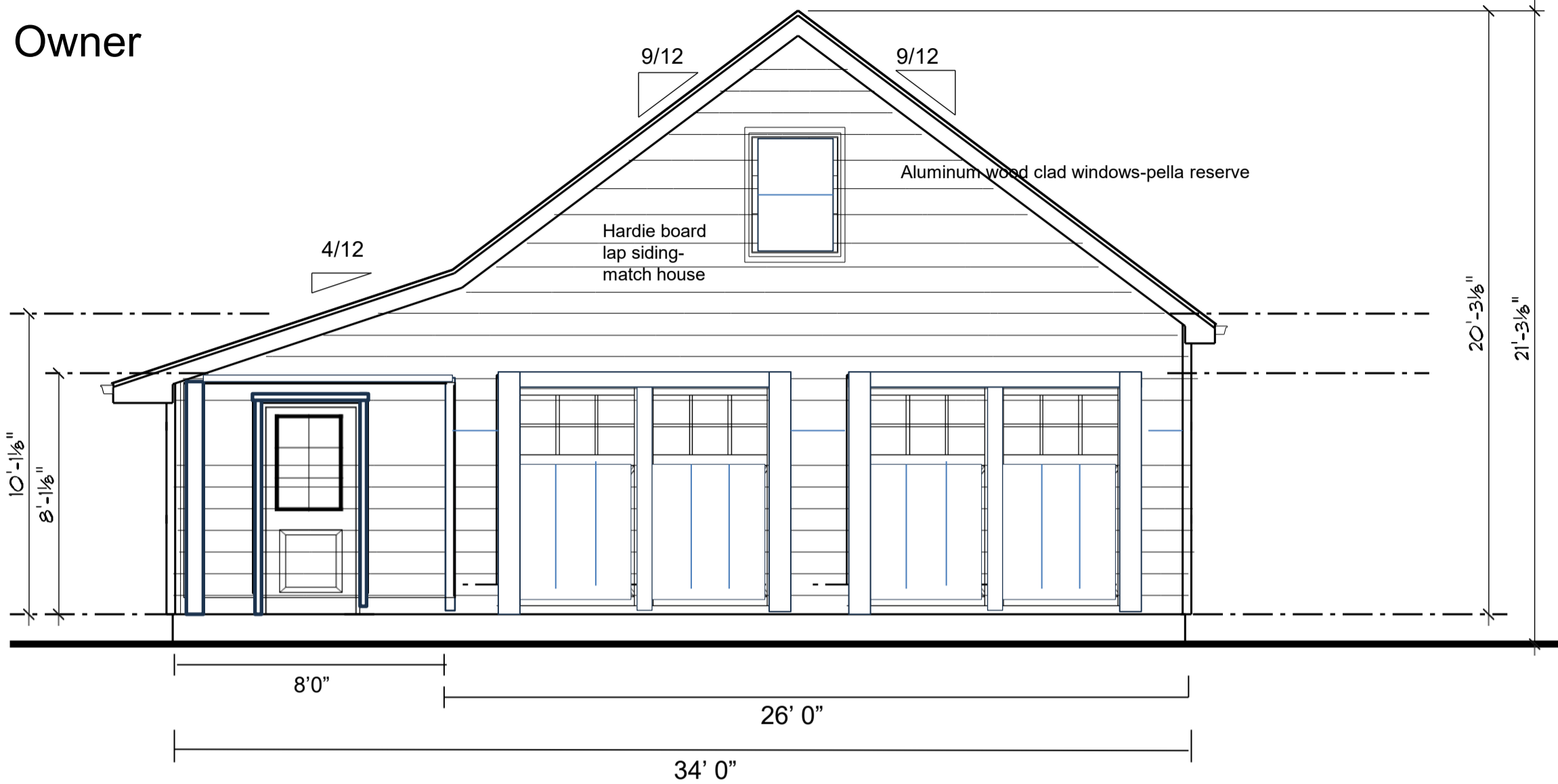
LAURI R. CULP, P.S. 7834  
 CULP SURVEYING, LLC  
 3853 RIDGEVIEW DRIVE  
 RICHFIELD, OHIO 44286  
 330-815-3765

BASE DRAWING BY:

**16 OWEN BROWN STREET**  
 PT. OF ORIG. HUDSON TWP. LOT 55, BLOCK 20  
 PPN 32-00338  
**CITY OF HUDSON**  
**SUMMIT COUNTY, OHIO**  
 DECEMBER, 2024 SCALE: 1" = 20'

16 Owen Brown Street  
Proposed Garage Plan

Mark Madar-Home Owner  
330-701-1308



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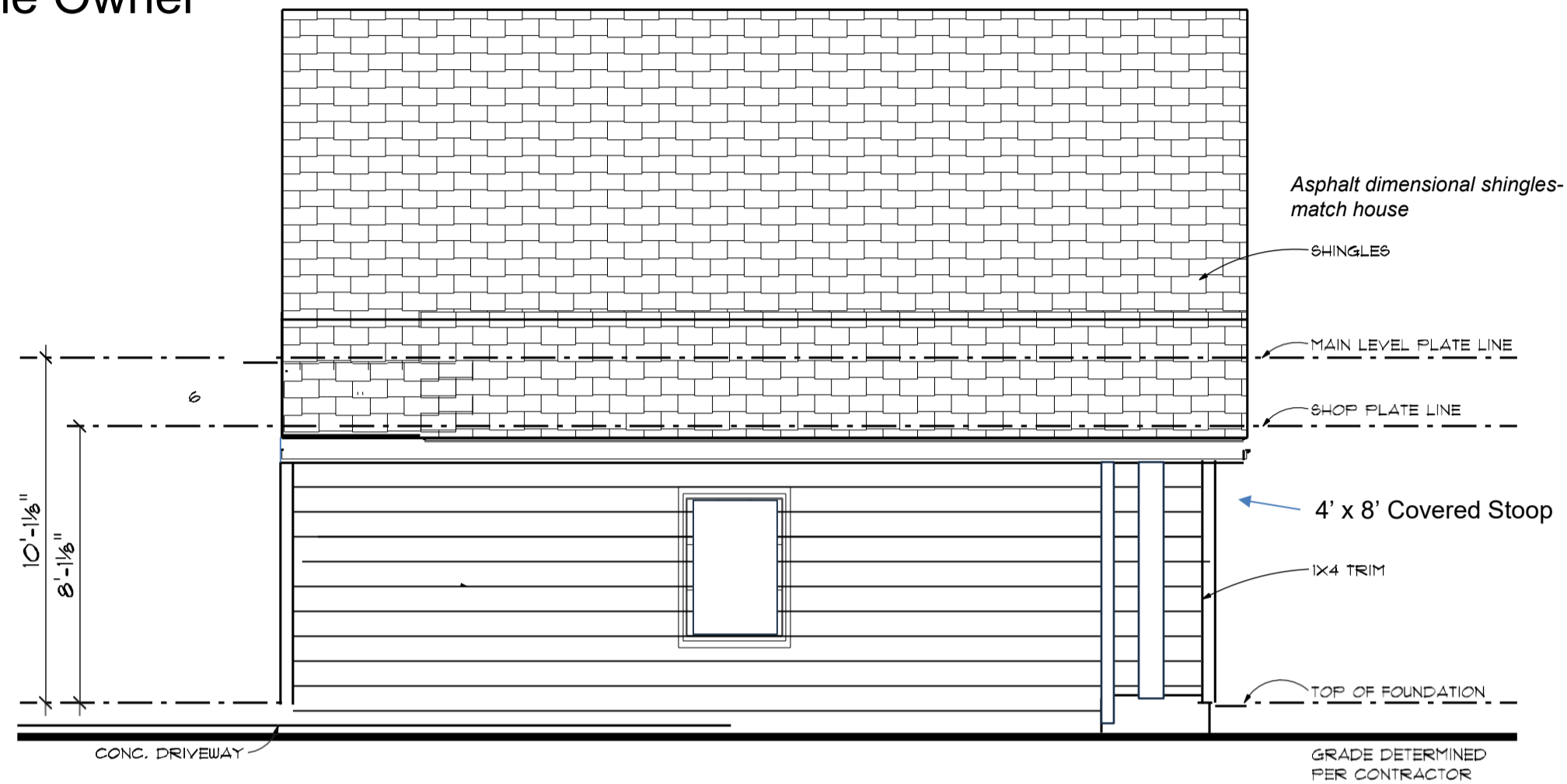
2  
OF

GENERATED 4/3/2023

100% SCALE @ 1/8"=1'-0"

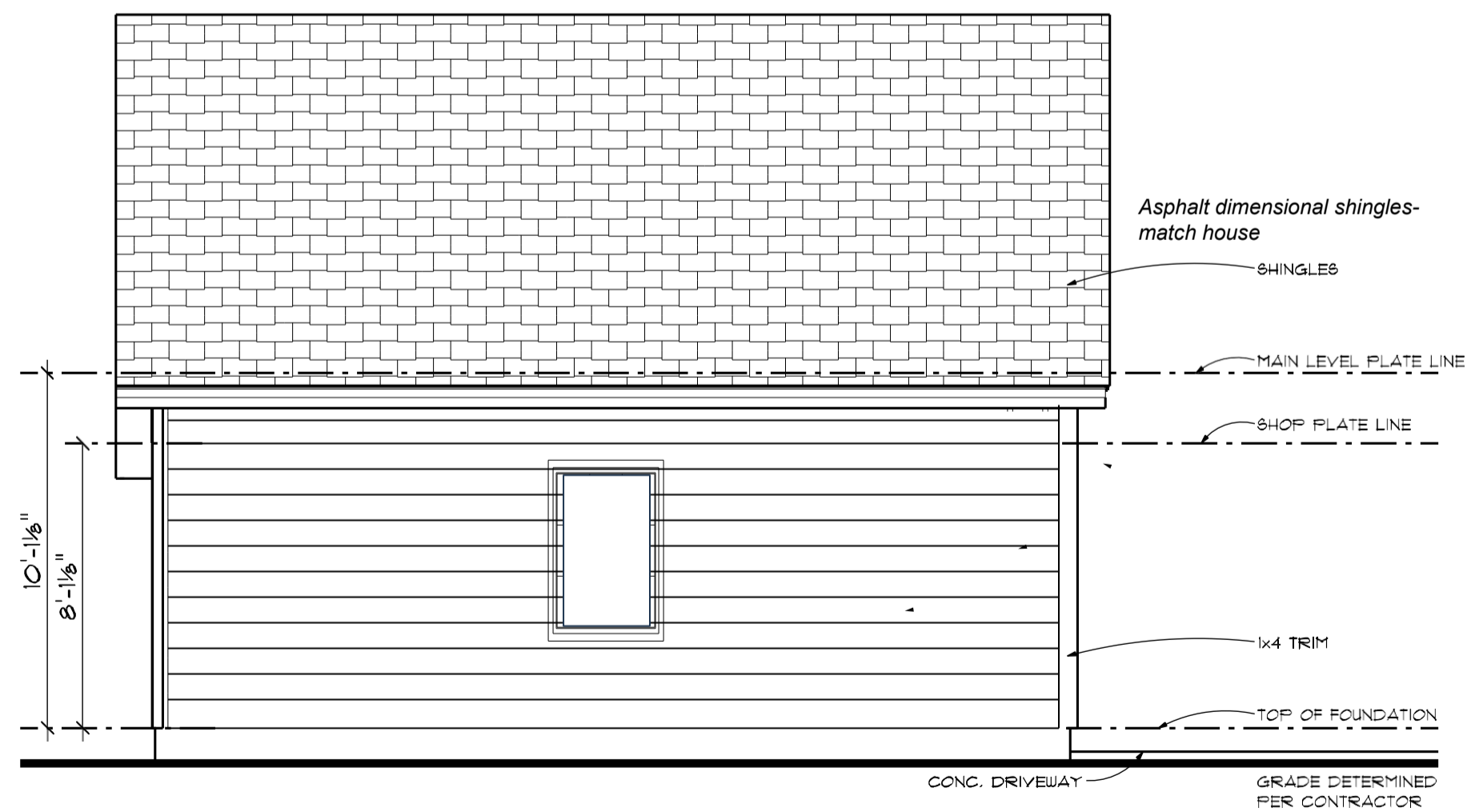
16 Owen Brown Street  
Proposed Garage Plan

Mark Madar-Home Owner  
330-701-1308



**RIGHT ELEVATION**

SCALE: 1/4" = 1'-0"



**LEFT ELEVATION**

SCALE: 1/4" = 1'-0"

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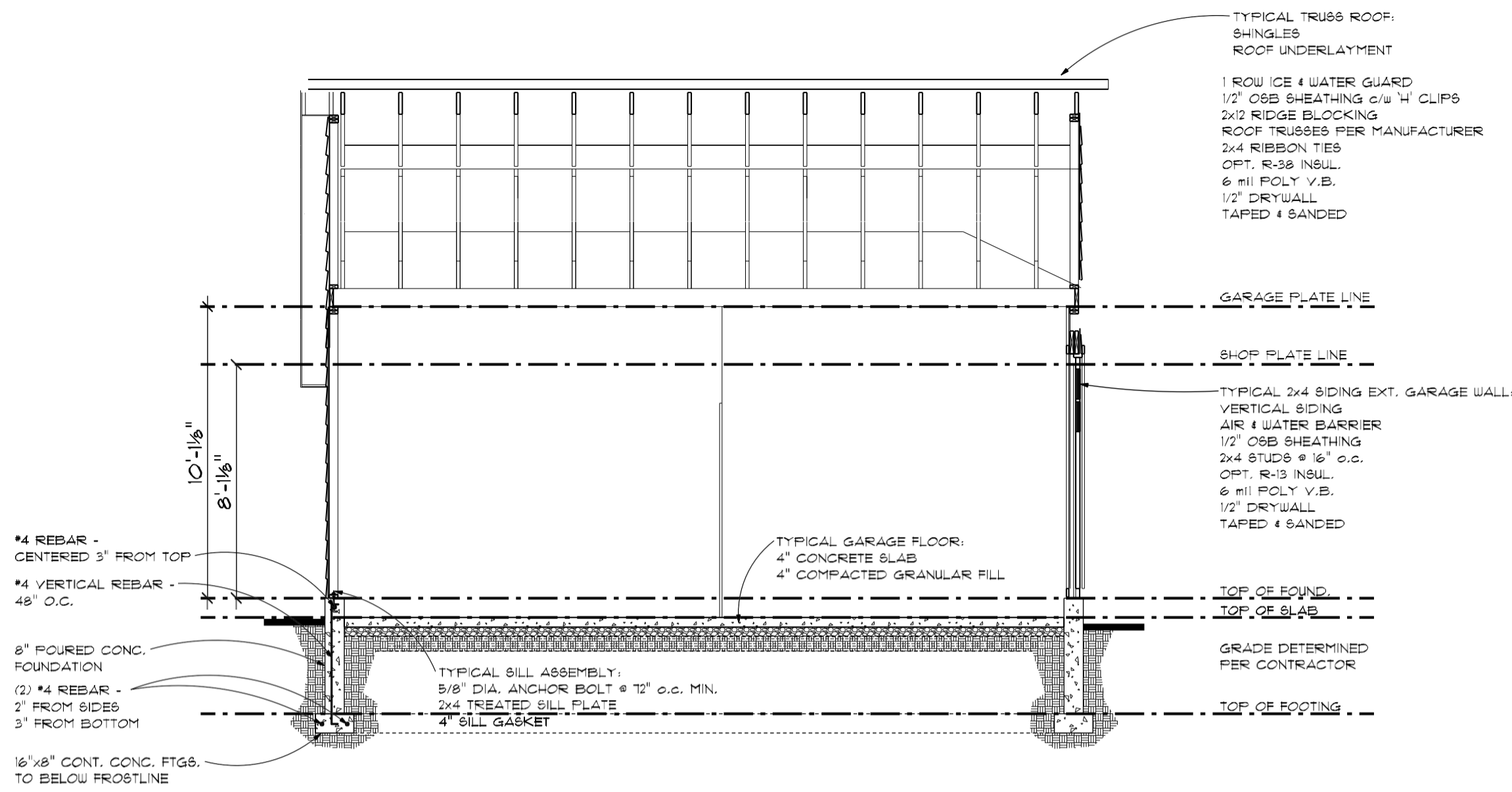
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SHEET  
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# 16 Owen Brown Street Proposed Garage Plan

Mark Madar-Home Owner  
330-701-1308

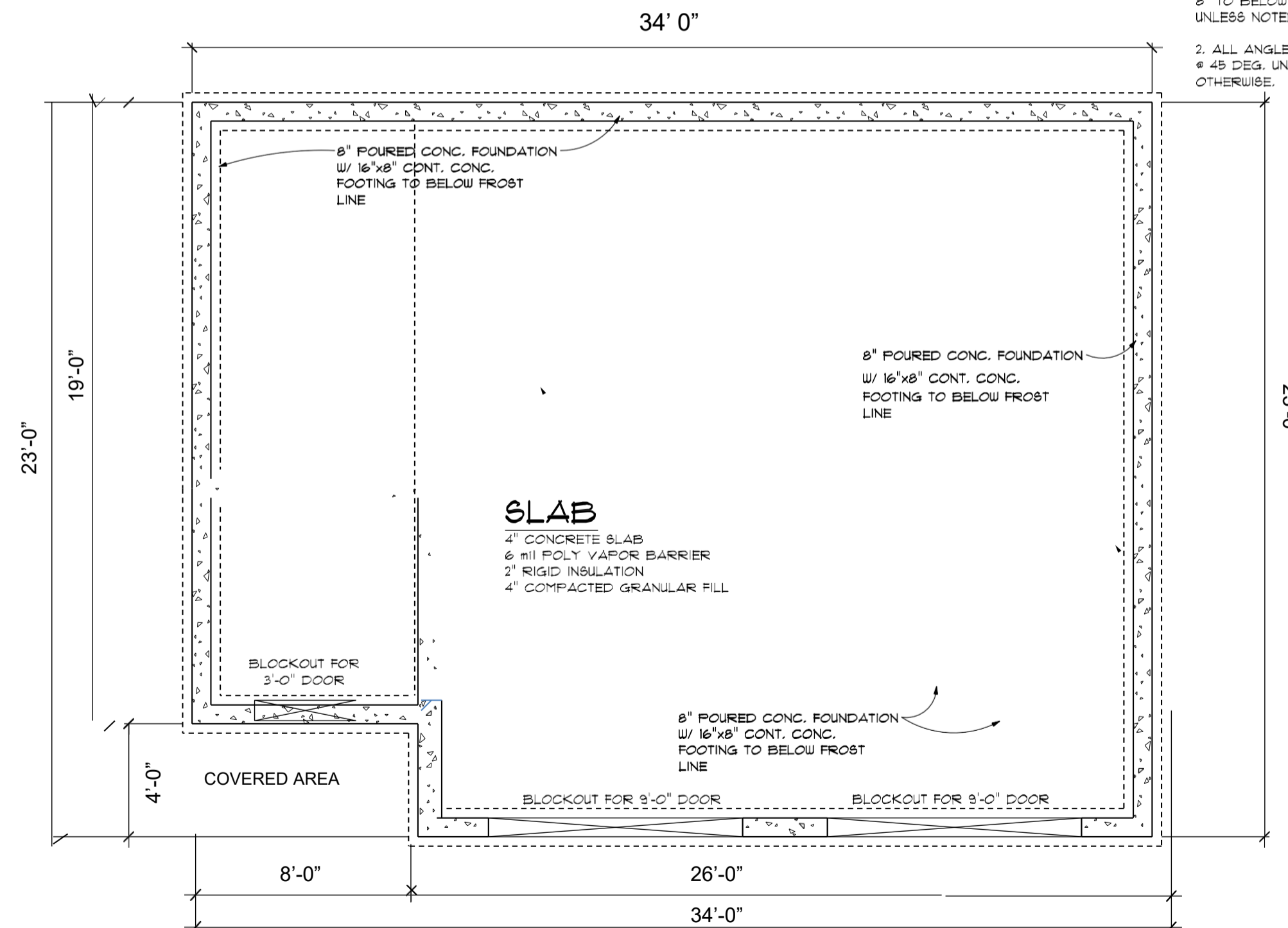


## CROSS SECTION

SCALE: 1/4"=1'-0"

### GENERAL NOTES:

- FOUNDATION WALL ARE 8" TO BELOW FROST LINE UNLESS NOTED OTHERWISE.
- ALL ANGLED WALLS ARE @ 45 DEG. UNLESS NOTED OTHERWISE.



## FOUNDATION PLAN

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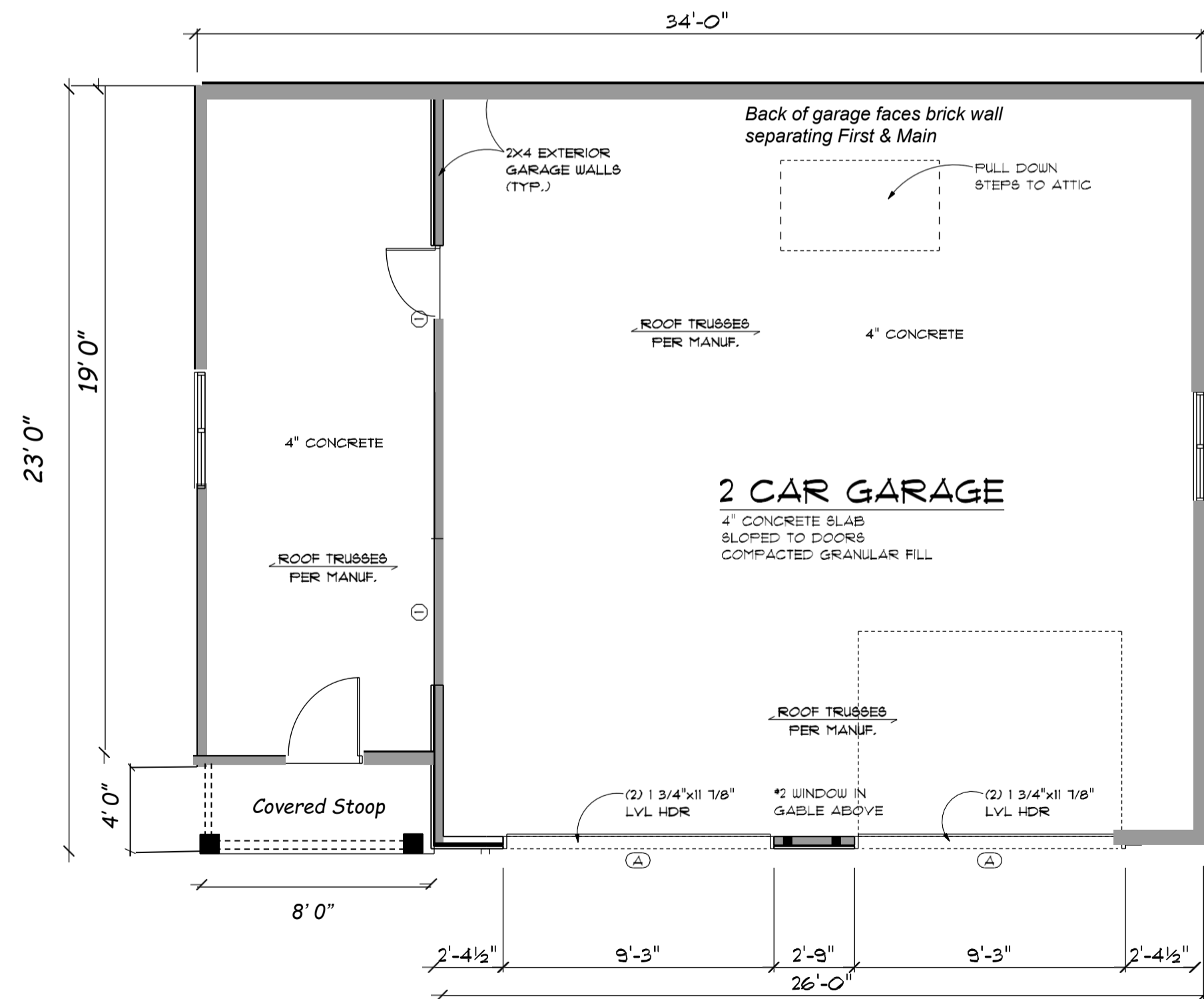
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SHEET  
**4**  
OF  
6

16 Owen Brown Street  
Proposed Garage Plan

Mark Madar-Home Owner  
330-701-1308



Windows: 32" x 58"  
Garage Doors: 108" x 84"  
Doors: 36" x 84"

GARAGE	750 sq ft
COV. STOOP	32 sq ft

**GENERAL NOTES:**  
1. ALL MAIN LEVEL WALLS ARE 10'-1 1/8" HIGH UNLESS NOTED OTHERWISE

ALL ANGLED WALLS ARE @ 45 DEG. UNLESS NOTED OTHERWISE

ALL EXTERIOR WALLS ARE 4" (3 1/2" STUD+1/2" SHEATHING) & ALL INTERIOR WALLS ARE 3 1/2" UNLESS NOTED OTHERWISE

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1-23-20
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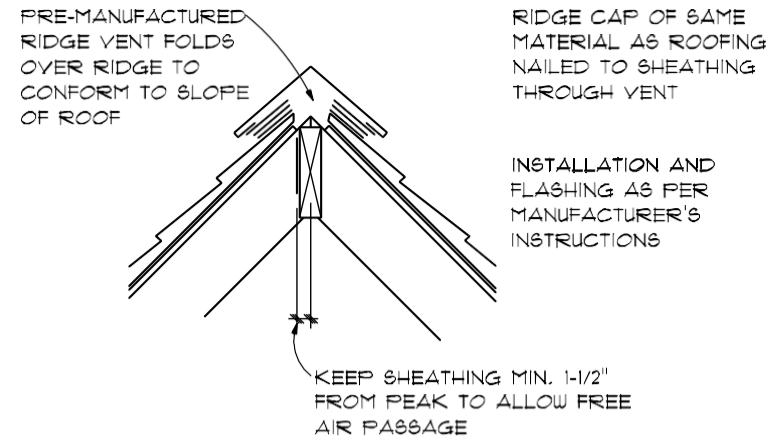
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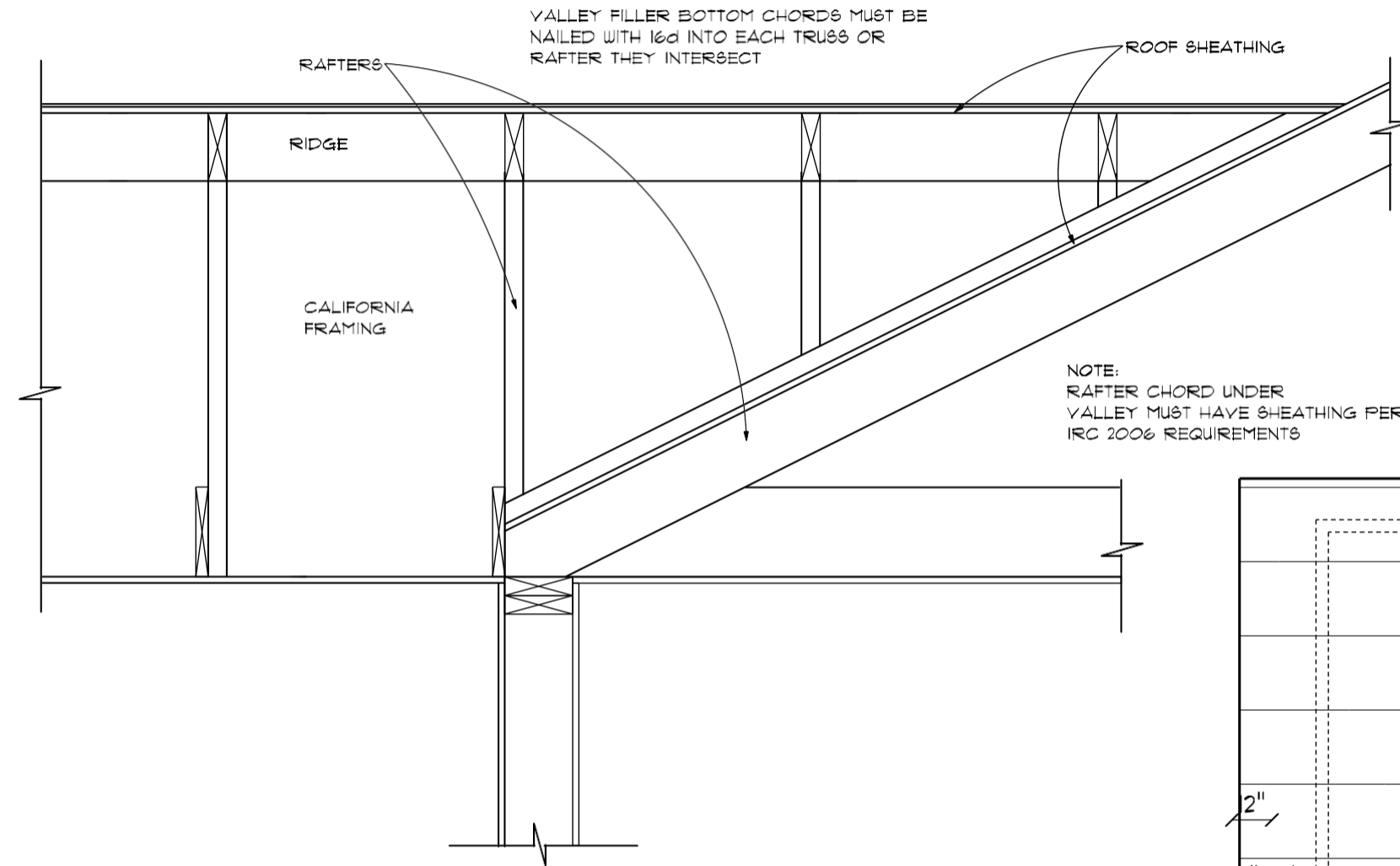
**MAIN LEVEL FLOOR PLAN**

SCALE: 1/4"=1'-0"

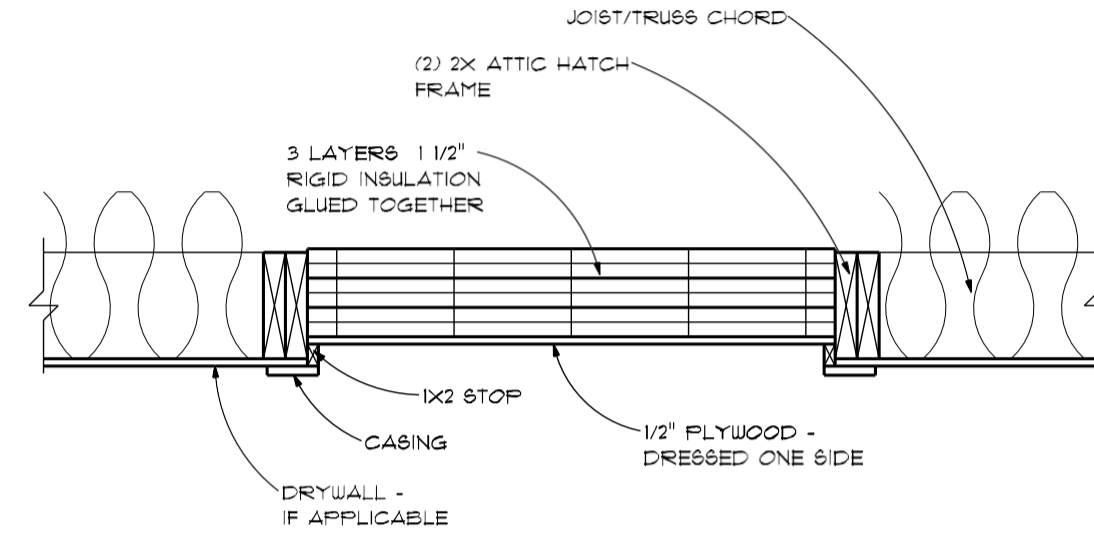
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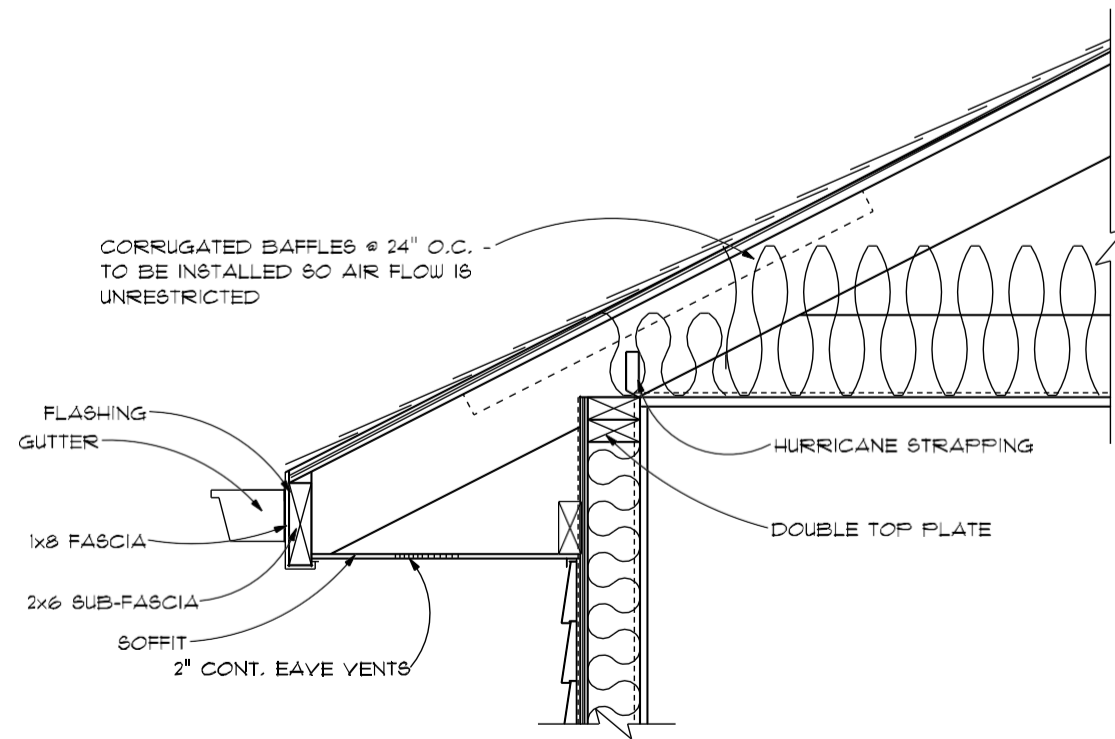
**RIDGE VENT**  
SCALE: 1"=1'-0"



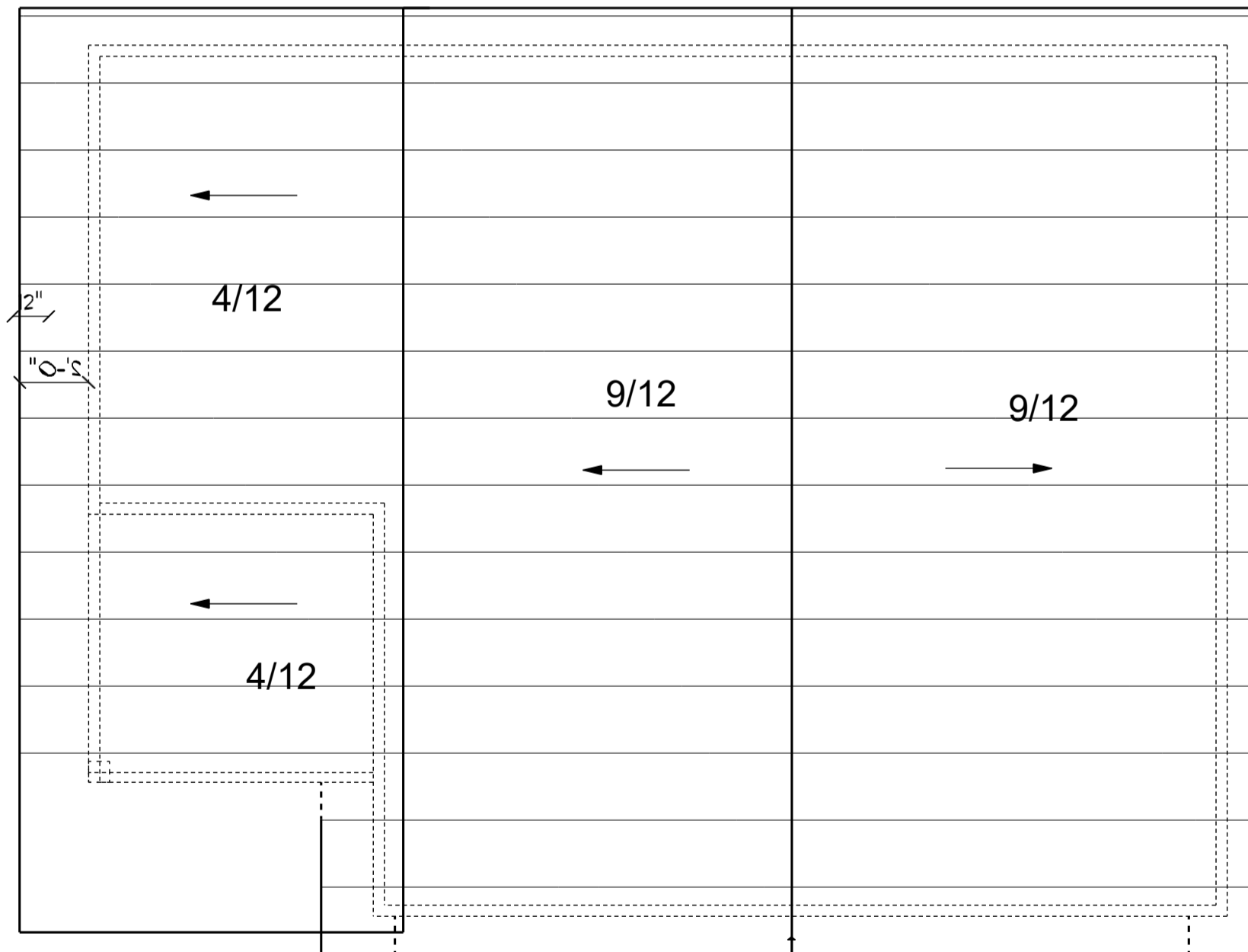
**ROOF OVERFRAMING**  
SCALE: 1"=1'-0"



**ATTIC HATCH**  
SCALE: 1"=1'-0"



**EAVE VENT**  
SCALE: 1"=1'-0"



**ROOF PLAN**  
SCALE: 1/4" = 1'-0"

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## HardiePlank® Lap Siding Product Description

HardiePlank® lap siding is factory-primed fiber-cement lap siding available in a variety of styles and textures. Please see your local James Hardie® product dealer for product availability. HardiePlank lap siding comes in 12 ft. lengths. Nominal widths from 5 1/4 in to 12 in. create a range of exposures from 4 in to 10 3/4 in

HardiePlank lap siding is also available with ColorPlus® Technology as one of James Hardie's prefinished products. ColorPlus® Technology is a factory applied, oven-baked finish available on a variety of James Hardie siding and trim products. See your local dealer for details and availability of products, colors, and accessories.

The HZ5® product line is right at home in climates with freezing temperatures, seasonal temperature variations, snow and ice. HZ5® boards are the result of our generational evolution of our time-tested products. We've evolved our substrate composition to be specifically designed to perform in conditions found in these climates. To ensure that its beauty matches its durability, we've engineered the surface for higher performance, giving it superior paint adhesion and moisture resistance. In addition, we've added a drip edge to the HardiePlank® HZ5® lap siding product to provide improved water management in conditions specific to HZ5® climates.



Select Cedarmill®



Smooth



Beaded Cedarmill®



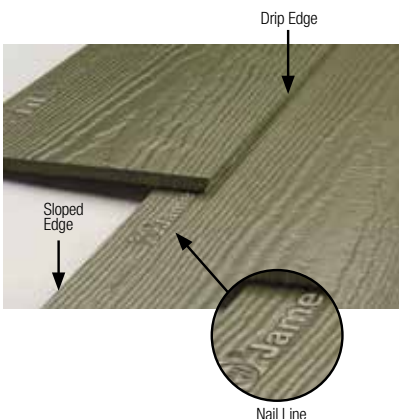
Beaded Smooth



Custom Colonial Roughsawn®



Custom Colonial Smooth®

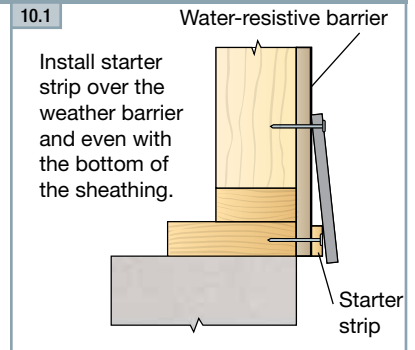


# Installation of HardiePlank® Lap Siding

## INSTALL A STARTER STRIP

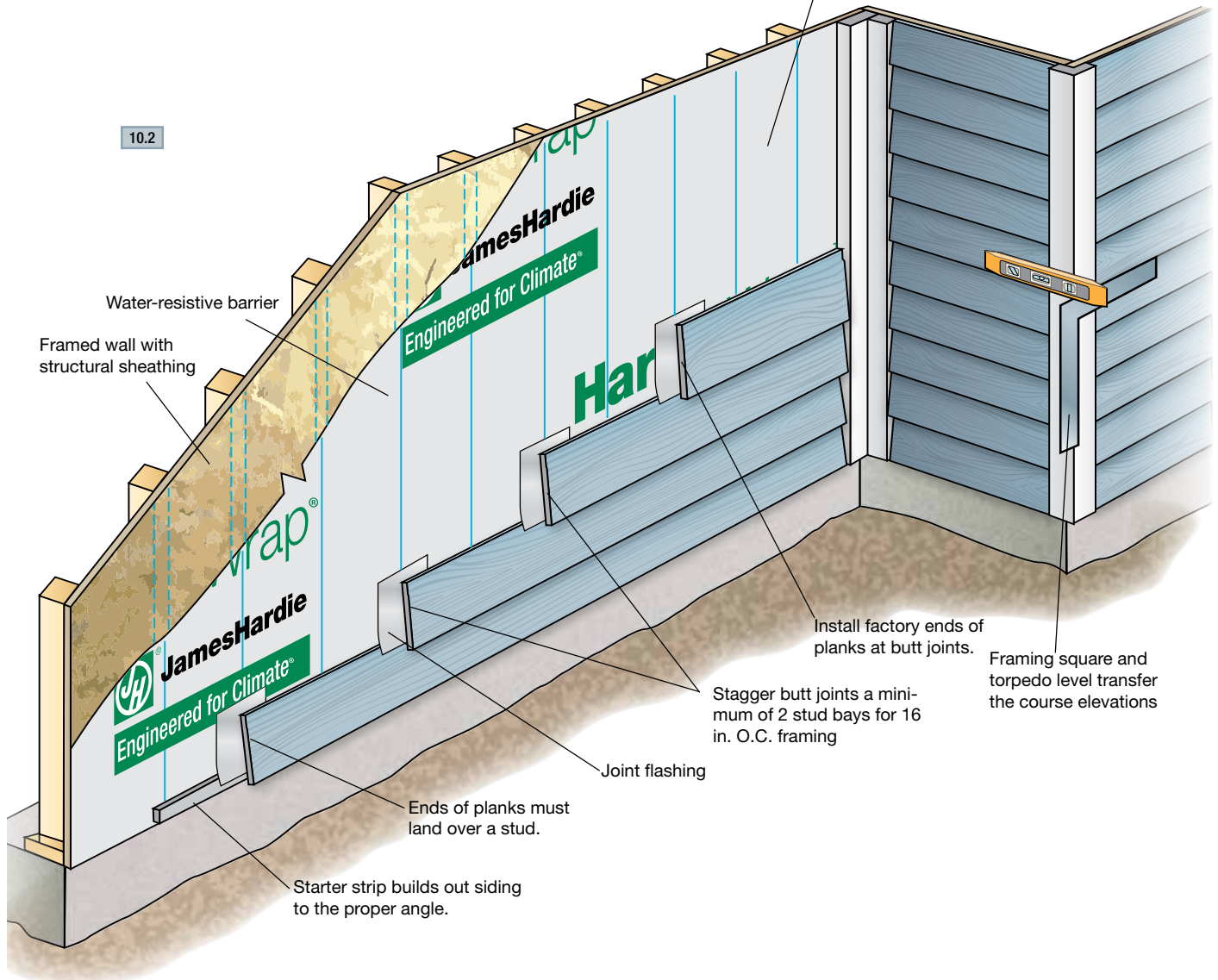
HardiePlank® lap siding requires a starter strip beneath the first course to set it on the proper angle and to create a proper drip edge at the bottom of the siding. Starter strips are easily made by ripping 1 ¼ in. pieces of HardiePlank siding from full or partial planks.

The bottom of the starter strip should be installed even with the bottom of the mudsill or the bottom edge of the sheathing. The strip must be installed over the water-resistive barrier, but occasional gaps should be left in the starter strip to allow any accumulated moisture behind the siding to drain away safely.



## OVERVIEW OF HARDIEPLANK LAP SIDING

**TIP:** For accurate fastening, snap vertical chalk lines on the water-resistive barrier at the center of every stud location.

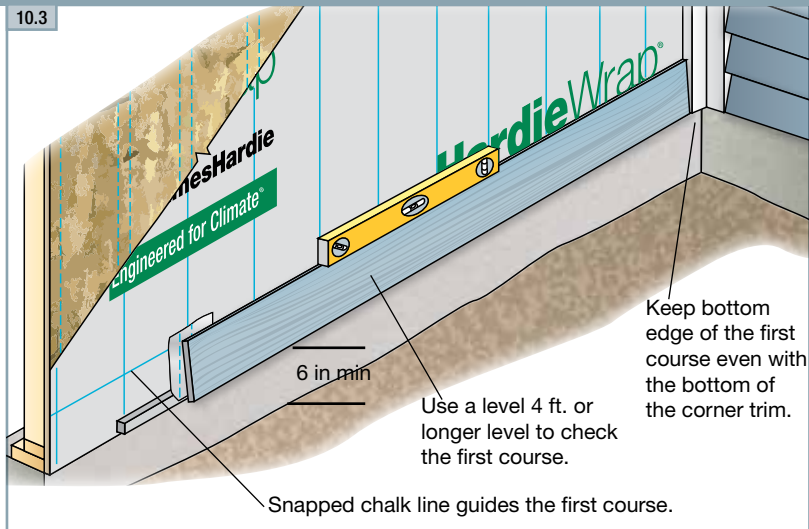


## INSTALLING THE PLANKS

The first course of HardiePlank® siding is critical to the proper installation of the plank on the rest of the building. The first course should start at the lowest point of the house and within required clearances. Special attention should be made to ensure that it's straight and level. Attention should also be paid to staggering any butt joints in the planks so that the installation is attractive while making efficient use of material.

1. Use a level (4 ft. or longer) or chalked level line to be sure that the first course is level. As installation proceeds up the wall, periodically check the level and straightness of the courses. When correcting for flatness over products such as exterior insulation, use drywall shims. It is good practice to snap a chalk line every 3 to 5 courses to keep the planks straight and level.
2. Position the bottom edge of the first course of siding a minimum  $\frac{1}{4}$  in below the edge of the starter strip (maintain required clearances) and secure.
3. Run the siding to the HardieTrim® board leaving a  $\frac{1}{8}$  in. gap between the siding and trim.

The bottom of the siding should be kept even with the bottom of the trim, or if desired, the trim may extend below the bottom of the siding. But the siding should never hang below the trim. **\*When installing the first course make sure ground clearances are in accordance with James Hardie requirements and those of local codes.**

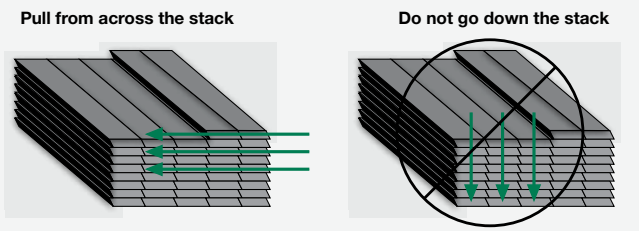


## PLANK ALIGNMENT AT CORNERS

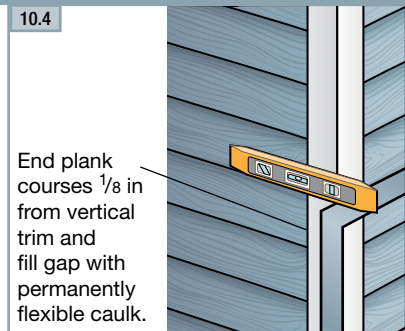
For the best looking installation, make sure that the heights of the plank courses match on both sides of a corner. Use a framing square, speed square or a level to match up the plank heights. Check every few courses to make sure proper heights are being maintained.

## HANDLING

**IMPORTANT:** To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.



**TIP:** When taking planks from the pallet installation, avoid repeating the texture pattern by working across the pallet. Two to four planks can be removed from a stack at one time. But then material should be taken from adjacent stacks, again working across the pallet. Texture repeat is typically a concern on large walls with few breaks such as windows or doors.



# Installation of HardiePlank® Lap Siding (cont.)

## BLIND NAILING (nailing through top of plank)

Blind nailing is recommended for installing any type of HardiePlank® lap siding including ColorPlus® siding. With blind nailing, each course covers the fasteners on the course below, which provides a better looking installation.

For blind nailing HardiePlank lap siding, James Hardie recommends driving fasteners 1 in. from the top edge of the plank. Additionally fasteners should be

placed no closer than 3/8 in from the ends of the plank.

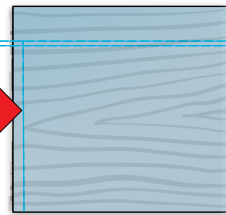
HardiePlank® HZ5® Lap Siding is manufactured with a nail line that should be used as a guide for proper nail placement when blind nailing. This nail line should not be used as a lap line.

Avoid placing fasteners near the top edge of the plank. This practice, called “high nailing”, may lead to loose planks, unwanted gaps or rattling. **Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends & 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing**

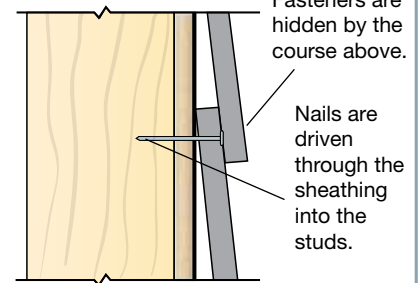
### 10.5 Blind nailing measurements

Nails for blind nailing shall be between 3/4 in and 1 in. from the top of the board.

Keep nails 3/8 in from ends of boards.



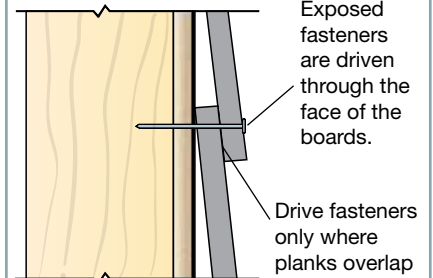
### 10.6 Blind nailing



## FACE NAILING (nailing through the overlap at the bottom of the plank)

Although blind nailing is recommended by James Hardie, face nailing may be required for certain installations including: installations in high wind areas, fastening into OSB or equivalent sheathing without penetrating a stud, or when dictated by specific building codes. Refer to Appendix D for related code matters.

### 10.7 Face nailing



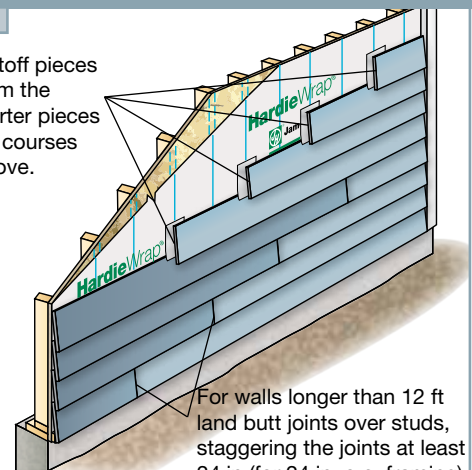
## STAGGERING THE BUTT JOINTS

For walls longer than 12 ft, it is necessary to butt joint additional lengths of HardiePlank siding. These butt joints should be staggered to avoid noticeable patterns, which is determined by the placement of the first course. Butt joints between consecutive courses should be spaced apart by at least two stud bays for 16 in. o.c. framing or one bay for 24 in. o.c. framing.

While random placement of the planks is usually the most aesthetically pleasing, a progressive stagger pattern can make the job easier and faster without the pattern becoming too noticeable. With this strategy, the cut off piece for one course becomes the starter piece for a course above, making efficient use of materials and ensuring that all butt joints land on studs. The pattern can be modified for different stud placement.

### 10.8

Cutoff pieces form the starter pieces for courses above.



## JOINT FLASHING

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

- A. Joint Flashing (James Hardie recommended)
- B. Caulking\* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)
- C. "H" jointer cover

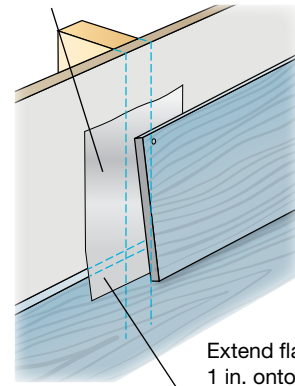
Flashing behind butt joints provides an extra level of protection against the entry of water at the joint. James Hardie recommends 6 in. wide flashing that overlaps the course below by 1 in. Some local building codes may require different size flashing.

Joint-flashing material must be durable, waterproof materials that do not react with cement products. Examples of suitable material include finished coil stock and code compliant water-resistive barriers. Other products may also be suitable.

**TIP:** Joint flashing can be quickly and easily made by cutting a 6 in. wide section off a roll of housewrap. Tape the roll tightly at the cut mark and cut the section off using a miter saw with a carbide blade. Individual sheets then can be cut to length with a utility knife.

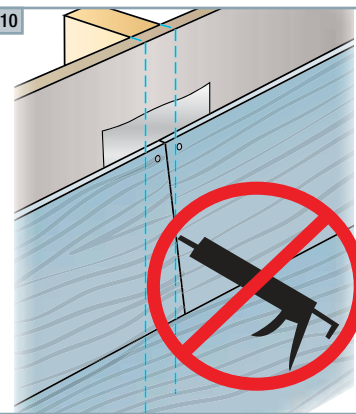
**TIP:** Use light-colored joint flashing when using light-colored ColorPlus lap siding or other siding with a light-colored finish. Dark-color joint flashings should be used on siding with dark finishes.

10.9 Flashing behind to add an additional layer of protection from water infiltration



Extend flashing 1 in. onto the course below

10.10

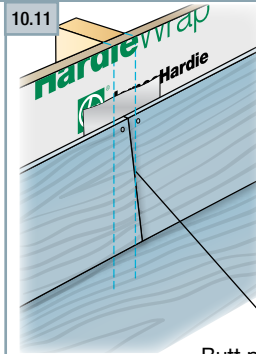


Caulking at HardiePlank lap siding butt joints is not recommended for ColorPlus for aesthetic reasons as the caulking and ColorPlus will weather differently. For the same reason, do not caulk exposed nail heads. Refer to the ColorPlus touch-up section for details

## JOINT PLACEMENT AND TREATMENT

Butt joints in HardiePlank lap siding should always land on a stud. Butt joints between studs are not recommended and should be avoided. Whenever possible, factory-finished ends should be used at butt joints.

Place cut ends where the siding meets a corner, door, window trim, or other break in the wall where the joint is to be caulked. If cut ends are used in a butt joint between planks, James Hardie requires sealing cut ends for all products. For ColorPlus products, use the color-matched edge coater to seal the cut end.



Butt planks with moderate edge contact

**COLORPLUS® TIP:** When installing HardiePlank lap siding with ColorPlus Technology, position the plank in the immediate area where the plank is to be fastened. Do not place the plank on the course below and slide into position. Doing so may scuff or scratch the ColorPlus finish on the installed piece.

# Installation of HardiePlank® Lap Siding (cont.)

## CONTINUING THE INSTALLATION

Once the initial course of HardiePlank® siding is fastened to the wall, continue installing successive courses with full 12 ft. pieces (follow the stagger pattern for longer walls), or until a window, door or other opening interrupts the course (fig 10.12). Notch planks as needed to fit around windows and doors. Again, be sure to seal all cut edges. Avoid placing butt joints directly above or below windows or above doors. Separate the joint from the opening by at least one course of siding.

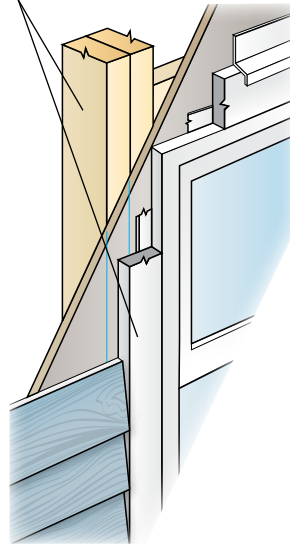
Where butt joints land on a stud, make sure there is enough stud space for plank on both sides of the joint to land properly. Optimally both sides of a butt joint should land in the middle of a stud with 3/4 in landing space for each side. The minimum stud space for a plank to land is 3/8 in

Pay special attention to window, doors, and corners that have been trimmed before the siding goes on. Vertical trim boards may cover the king studs beside windows or doors, or they may cover up corner studs leaving no room for nailing the siding. In these places add extra studs as needed.

If corners are trimmed with HardieTrim® 5/4, 4/4 boards, it may be necessary to measure and cut the first pieces of siding to make sure the butt joints land on studs.

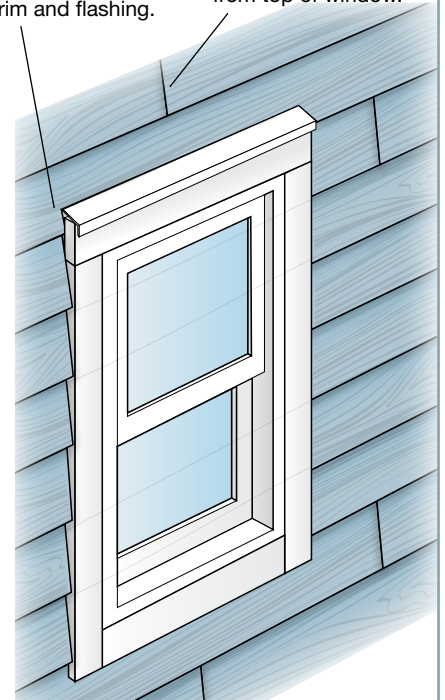
### 10.12 Planking around windows

Add an extra stud if necessary for nailing the ends of the planks.



Notch plank around window trim and flashing.

Keep butt joints more than one course away from top of window.



**COLORPLUS TIP:** HardiePlank lap siding with ColorPlus Technology is shipped with a protective laminate slip sheet, which should be left in place during cutting and fastening to reduce marring and scratching. The sheet should be removed immediately after each plank is installed.



## INSTALLING HARDIEPLANK® SIDING ON GABLE WALLS

Siding gable walls can be challenging, and some of the keys to siding gable walls efficiently are determining the angle or pitch of the roof, properly staging materials, and ensuring that the plank lengths are measured accurately.

To estimate the amount of siding needed to complete a gable end, use the estimating tools located in Appendix C.

Stage enough material on the pump jacks or scaffolding to complete the gable end, but take care not to overload the staging. When possible, a cut table should be located on the pump jacks or scaffolding, which frees up crew members to work on other walls.



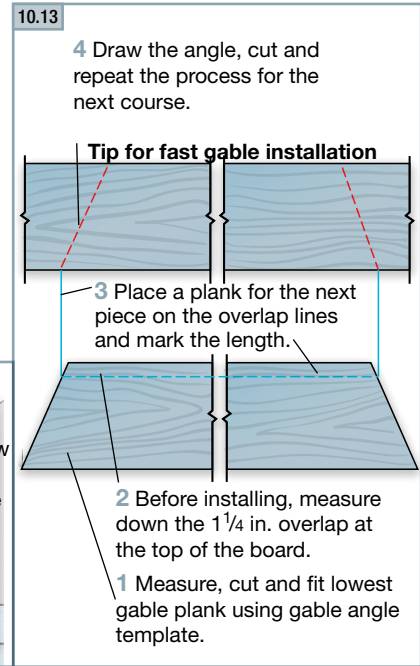
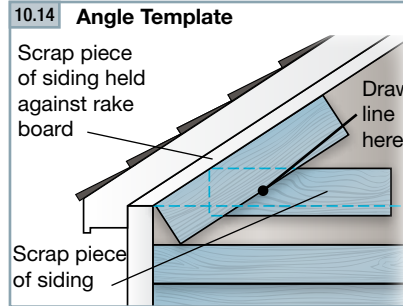
### To cut planks for the gable:

1. Tack up a small scrap piece of siding where the first gable course is going.
2. Hold a second small piece of siding against the eave or rake board.
3. Trace the angle onto the scrap.
4. Cut that line and label the scrap as the template for the gable angle. The template can then be used to transfer the angle onto the larger pieces for cutting and installation.
5. Periodically check the angle as you progress up the wall.

### The quickest way to measure and cut consecutive courses of siding for a gable is to work off the previous piece.

1. Cut and fit the lowest course of siding.
2. Before installing, lay it flat and measure down 1 1/4 in. from the top edge of the plank for the course overlap. Make a mark on both ends.
3. Set a piece of uncut siding on top of the first piece, aligning the bottom edge with the overlap marks. Transfer the length directly to the uncut piece.
4. Draw the gable angle with the template, cut the angle and then repeat the process for the next course.

**TIP:** Stainless steel fasteners are recommended when installing James Hardie® products.



### HARDIEPLANK® SIDING FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load design criteria.

Fastener Substrate		Approved Fastener	Fastener Type
wood studs	blind nail	16 in o.c.	② .113 in x .267 in x 2 in — 6D common
		24 in o.c.	③ ⑨ .093 in x .222 in. x 2 in — 6D siding nail
	face nail	16 in o.c.	⑨ No 11ga 1.25 in long — roofing nail
		24 in o.c.	② ⑤ Ribbed Bugle-Head No. 8 .323 in x 1.625 in — screws
steel studs*	blind nail	16 in o.c.	⑧ ⑬ Ribbed Wafer-Head No. 8 (.375 in x 1.25 in) — ET&F
		24 in o.c.	⑫ [AKN-100] .100 in x .25 in x 1.5 in — ET&F
	face nail	16 in o.c.	⑬ [AGS-100] .100 in x .313 in x 1.5 in — ET&F
		24 in o.c.	⑭ [ASTM C-90] ASM-144-125 (P/C) .30 in x .14 in x 1.25 in — masonry nail
Direct to Masonry		⑭ .113 in x .260 in x 2.375 in — 8D common	
7/16 in OSB or equivalent (face nailed)		④ ⑮ No 11ga 1.75 in long — roofing nail	
		④ .091 in. x .221 in. x 1.5 in — 4D siding nail	

\*When blind fastening 9.5 in or wider product onto steel studs, use screws.

● indicates recommended fasteners



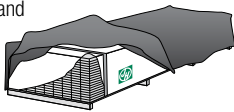
# HardiePlank® Lap Siding

EFFECTIVE SEPTEMBER 2019

**IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)**

## STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



## ⚠ CUTTING INSTRUCTIONS

### OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- Cut using one of the following methods:
  - Best:** Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
  - Better:** Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
  - Good:** Circular saw equipped with a HardieBlade saw blade.

### INDOORS

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to jameshardiepros.com for additional cutting and dust control recommendations.

**IMPORTANT:** The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

**IMPORTANT:** To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Please see additional handling requirements on page 4.

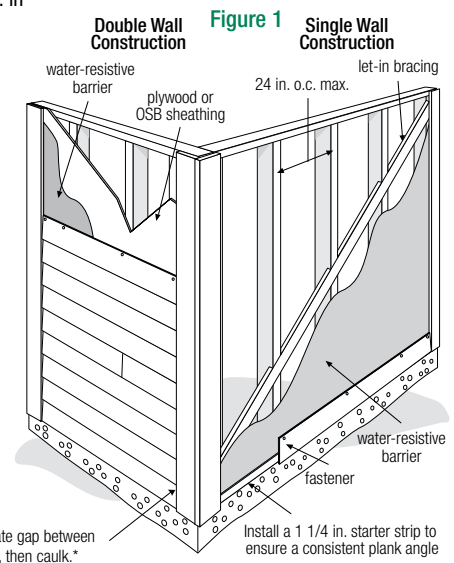
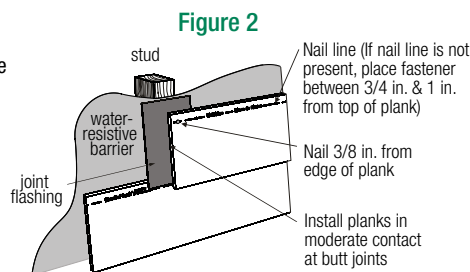
## GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at [www.jamehardie.com](http://www.jamehardie.com)
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap<sup>1</sup>, which complies with building code requirements.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft..
- Do not use HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at [www.jameshardie.com](http://www.jameshardie.com).
- James Hardie Building Products provides installation /wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

## INSTALLATION: JOINT TREATMENT

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

- Joint Flashing (James Hardie recommended)
- Caulking\* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)
- "H" jointer cover



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. \*Refer to Caulking section in these instructions.  
<sup>1</sup>For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or [www.hardiewrap.com](http://www.hardiewrap.com)



SELECT CEDARMILL® | SMOOTH | BEADED CEDARMILL® | BEADED SMOOTH

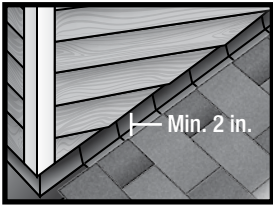


Visit [jameshardiepros.com](http://jameshardiepros.com) for the most recent version.

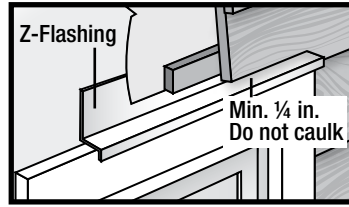
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## CLEARANCE AND FLASHING REQUIREMENTS

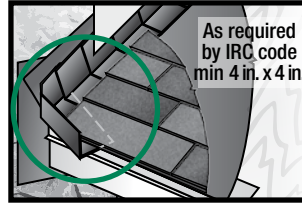
**Figure 3**  
**Roof to Wall**



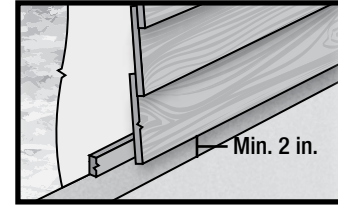
**Figure 4**  
**Horizontal Flashing**



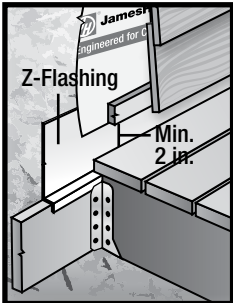
**Figure 5**  
**Kickout Flashing**



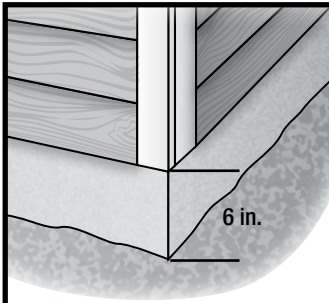
**Figure 6**  
**Slabs, Path, Steps to Siding**



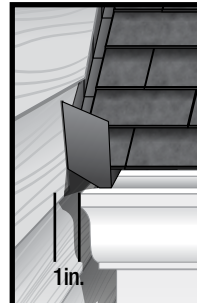
**Figure 7**  
**Deck to Wall**



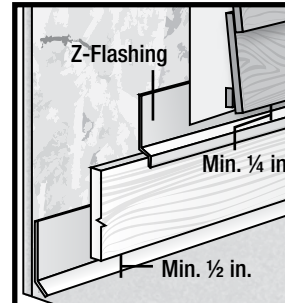
**Figure 8**  
**Ground to Siding**



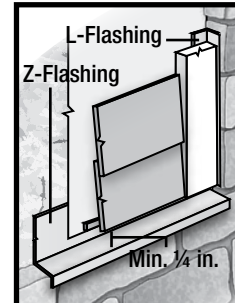
**Figure 9**  
**Gutter to Siding**



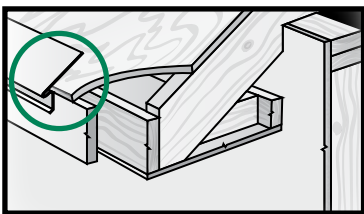
**Figure 10**  
**Sheltered Areas**



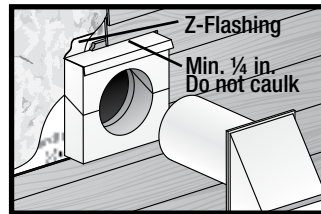
**Figure 11**  
**Mortar/Masonry**



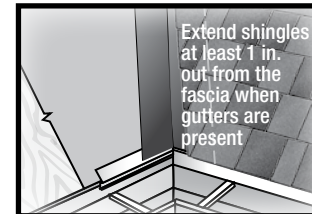
**Figure 12**  
**Drip Edge**



**Figure 13**  
**Block Penetration**



**Figure 14**  
**Valley/Shingle Extension**



## FASTENER REQUIREMENTS\*

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair).

### BLIND NAILING

#### Nails - Wood Framing

- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)

#### Screws - Steel Framing

- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

- ET & F Panefast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.215 in. HD x 1-1/2 in. long)
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

### FACE NAILING

#### Nails - Wood Framing

- 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
- Siding nail (0.09" shank x 0.221" HD x 2" long)

#### Screws - Steel Framing

- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

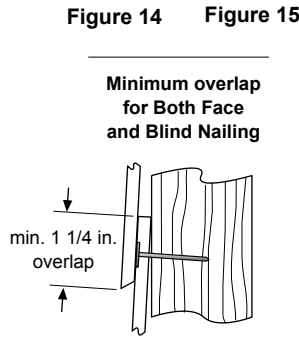
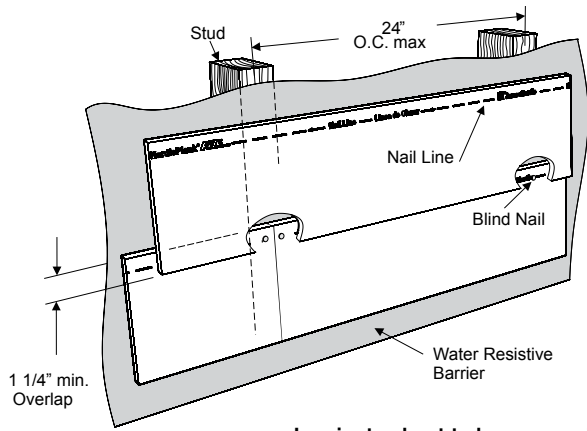
- ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)

\*Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB 5 - Fastening Tips for HardiePlank Lap Siding.

**FASTENER REQUIREMENTS** *continued*



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends and 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing.

**GENERAL FASTENING REQUIREMENTS**

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.

**CUT EDGE TREATMENT**

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

**CAULKING**

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions.

**Note: some caulking manufacturers do not allow "tooling".**

**PAINTING**

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® products. Factory-primed James Hardie products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

**PNEUMATIC FASTENING**

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

<p><b>SNUG</b>    <b>FLUSH</b></p>				
<p><b>DO NOT</b></p> <p><b>UNDER DRIVE</b></p>	<p><b>DO NOT</b></p> <p><b>OVER DRIVE</b>    <b>SLANT</b></p>	<p><b>DO NOT USE</b></p> <p><b>ALUMINUM FASTENERS</b></p>		
<p><b>IF, THEN</b></p> <table border="0"> <tr> <td> <p><b>WOOD FRAME</b></p> <p>HAMMER FLUSH</p> </td> <td> <p><b>STEEL FRAME</b></p> <p>REMOVE &amp; REPLACE</p> </td> </tr> </table>		<p><b>WOOD FRAME</b></p> <p>HAMMER FLUSH</p>	<p><b>STEEL FRAME</b></p> <p>REMOVE &amp; REPLACE</p>	<p><b>IF, THEN ADDITIONAL NAIL</b></p> <p><b>FACE NAIL</b></p> <p>COUNTERSINK &amp; FILL</p>
<p><b>WOOD FRAME</b></p> <p>HAMMER FLUSH</p>	<p><b>STEEL FRAME</b></p> <p>REMOVE &amp; REPLACE</p>			
		<p><b>CLIPPED HEAD NAILS</b></p>		
		<p><b>STAPLES</b></p>		



### COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
  - Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
  - Laminate sheet must be removed immediately after installation of each course.
  - Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
  - Treat all other non-factory cut edges using the ColorPlus Technology edge coat, available from your ColorPlus product dealer.
- Note:** James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

### COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

COVERAGE AREA LESS OPENINGS	HARDIEPLANK® LAP SIDING WIDTH									
	SQ (1 SQ = 100 sq.ft.)	5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4
1		25	20	17	16	15	14	13	13	9
2		50	40	33	32	30	29	25	25	19
3		75	60	50	48	44	43	38	38	28
4		100	80	67	64	59	57	50	50	37
5		125	100	83	80	74	71	63	63	47
6		150	120	100	96	89	86	75	75	56
7		175	140	117	112	104	100	88	88	65
8		200	160	133	128	119	114	100	100	74
9		225	180	150	144	133	129	113	113	84
10		250	200	167	160	148	143	125	125	93
11		275	220	183	176	163	157	138	138	102
12		300	240	200	192	178	171	150	150	112
13		325	260	217	208	193	186	163	163	121
14		350	280	233	224	207	200	175	175	130
15		375	300	250	240	222	214	188	188	140
16		400	320	267	256	237	229	200	200	149
17		425	340	283	272	252	243	213	213	158
18		450	360	300	288	267	257	225	225	167
19		475	380	317	304	281	271	238	238	177
20		500	400	333	320	296	286	250	250	186

### PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

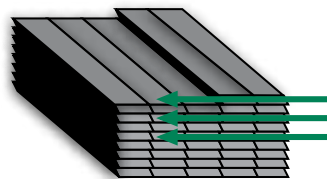
- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

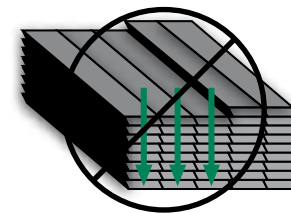
### ADDITIONAL HANDLING REQUIREMENTS

**IMPORTANT:** To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.

Pull from across the stack



Do not go down the stack



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**SILICA WARNING**

**DANGER:** May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

**WARNING:** This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**RECOGNITION:** In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13192, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

# Pella® Lifestyle Series

Clad/Wood



#1 performing wood window and patio door for the combination of energy, sound and value.<sup>1</sup>

Triple-pane casement



- **Easy-to-learn Pella Steady Set™ interior installation system**

Pella Steady Set Interior Installation System is a revolutionary, award-winning and safer way to install new construction windows.<sup>1</sup> The simple system is the fastest, most labor efficient wood window installation system with uncompromising quality.<sup>2</sup> Available on select windows.

- **Performance redefined**

You don't have to compromise on any aspect of performance. Available performance solutions offer an unbeatable combination of energy efficiency, sound control and value.<sup>3</sup>

- **ENERGY STAR® certified<sup>4</sup>**

Pella products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states. Pella Lifestyle Series products with triple-pane glass have been awarded ENERGY STAR Most Efficient Mark in 2023.

- **Enhanced sound control**

Our patented, triple-pane design with Advanced Low-E glass allows for mixed glass thickness for enhanced sound dampening resulting in an average 52% noise reduction versus single-pane windows.<sup>5</sup>

- **Intentional design for improved durability**

Intentional jamb on sill design helps seal the end grain of the wood and elevates it off the rough opening, reducing the potential for moisture.

- **Durable 3-way corner joints**

Three-way corner joints are made up of mortise-and-tenon, metal fasteners and commercial adhesive for added strength and durability.

- **Low-maintenance exteriors**

Aluminum-clad exteriors with EnduraClad® finish resists fading and chalking. It is applied in an overlapping fashion for exceptional protection.

- **Exclusive wood protection**

Pella's exclusive EnduraGuard® wood protection is applied after the pieces have been cut and milled, but prior to final assembly. It provides advanced protection against the effects of moisture, decay, stains from mold and mildew — as well as termite damage.

- **Time-tested innovations**

Create unique room-by-room solutions and achieve project goals with performance options and purposeful innovations like the Hidden Screen and integrated blinds, shades and security sensors. For more information on integrated wireless security sensors, go to [connectpella.com](https://connectpella.com).

- **Best limited lifetime warranty<sup>6</sup>**

Pella Lifestyle Series products are covered by the best limited lifetime warranty in the industry for wood windows and patio doors.<sup>5</sup>

- **Testing beyond requirements**

At Pella, our products are tested beyond requirements to help ensure they have long-lasting performance and reduce call-backs for you.

- **Hidden Screen**

The revolutionary Hidden Screen appears when you open a double-hung window and folds away when it is closed. It provides a clear view when the window is closed and improves curb appeal year-round.

Dual-pane double-hung window with Hidden Screen



Available in these window and patio door styles:<sup>7</sup>



Special shape windows also available.

<sup>1,2,3,4,5,6,7</sup> See back cover for disclosures.

## Product Specifications

Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values			Frame/Install
						U-Factor	SHGC	STC	
<b>Awning</b> Dual-pane vent	21"	17"	59"	59"	LC30 - LC50	0.25 - 0.34	0.19 - 0.51	25-28	Pella Steady Set, Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
<b>Awning</b> Triple-pane vent	21"	17"	59"	59"	R20 - CW50	0.20 - 0.28	0.15 - 0.41	31-37	
<b>Casement</b> Dual-pane vent	17"	17"	35"	73"	LC30-LC50	0.25 - 0.34	0.19 - 0.58	25-31	
<b>Casement</b> Triple-pane vent	17"	17"	35"	73"	R20-CW50	0.20-0.25	0.17-0.46	31-37	
<b>Fixed Casement</b> Dual-pane	17"	17"	73"	73"	LC30-LC50	0.23 - 0.35	0.20 - 0.57	29-32	
<b>Fixed Casement</b> Triple-pane	17"	17"	73"	73"	R20-CW50	0.19 - 0.27	0.15 - 0.49	33-37	
<b>Double-Hung</b> Dual-pane vent	21"	35"	48"	84"	LC30-LC50	0.25 - 0.34	0.20 - 0.48	27-31	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
<b>Hinged Patio Door</b> Dual-pane single door	30"	80"	38"	96"	LC50	0.26 - 0.32	0.18 - 0.48	31	
<b>Hinged Patio Door</b> Triple-pane single door	30"	80"	38"	96"	LC55	0.23 - 0.28	0.12 - 0.34	34-36	
<b>Hinged Patio Door</b> Dual-pane double door	60"	80"	75"	96"	LC50	0.25-0.29	0.18-0.48	30-32	
<b>Hinged Patio Door</b> Triple-pane double door	50"	80"	75"	96"	LC55	0.22-0.26	0.14-0.38	34-36	
<b>Sliding Patio Door</b> Dual-pane single-door fixed (O)	31"	80"	49"	96"	CW50	0.24-0.33	0.18-0.51	27	
<b>Sliding Patio Door</b> Triple-pane single-door fixed (O)	31"	80"	49"	96"	CW60	0.21-0.27	0.17-0.45	33-36	
<b>Sliding Patio Door</b> Dual-pane double-door vent (OX or XO)	60"	80"	96"	96"	R20-LC50	0.24 - 0.34	0.18-0.51	29-32	
<b>Sliding Patio Door</b> Triple-pane double-door vent (OX or XO)	60"	80"	96"	96"	R25-LC60	0.22 - 0.29	0.16 - .44	33-36	

Window sizes available in 1/4" increments

Special sizes available in triple-pane patio doors. For more information regarding performance, visit [pella.com/performance](http://pella.com/performance). For more information regarding frame and installation types, visit [installpella.com](http://installpella.com).

## Window Hardware

### Essential Collection

Select from popular designs and finishes to suit every style.



Fold-away Crank



Cam-Action Lock

Finishes:

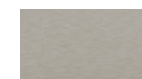


Champagne

White

Brown

Matte Black



Satin Nickel



Satin Brass

## Patio Door Hardware

### Essential Collection

Elevate your style and transform a home with elegant selections.

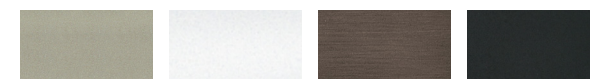


Hinged Patio Door Handle



Sliding Patio Door Handle

Finishes:

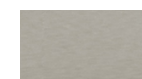


Champagne

White

Brown

Matte Black



Satin Nickel



Satin Brass

## Colors

### Prefinished Pine Interior Colors

We can prefinish pine in your choice of several paint and stain colors. Unfinished or primed and ready-to-paint are also available.



### Aluminum-Clad Exterior Colors

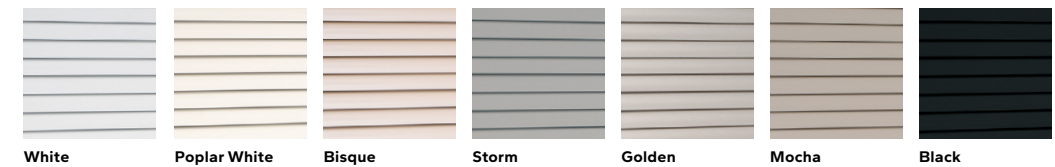
Our low-maintenance EnduraClad® exterior finish resists fading and helps protect windows and patio doors for years. Seacoast EnduraClad protective finish for coastal projects with high salt exposure is also available.



## Integrated Blinds & Shades

### Integrated Blinds®

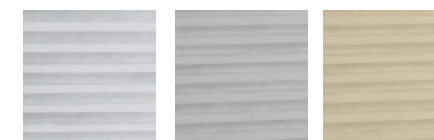
Raise blinds up for an unobstructed view or tilt to let in just the right amount of light. Our best integrated and accessible blinds are available manual or motorized with Pella® Insynctive® technology.



### Integrated Shades®

Our best integrated fabric shades feature a white exterior fabric for a uniform look from the street. Integrated and accessible shades are available manual or motorized with Pella Insynctive technology.

Light-Filtering:



White

Silver

Maize

Room-Darkening:



Cotton

Bamboo

Ash

Haven't landed on the final blind or shade color selection? No problem. With our patented triple-pane design, you and your customer can make those decisions later in the schedule. Our triple-pane products come with all of the hardware to add a blind or shade straight from the factory or at a later time in the building or remodeling process.

## Screens<sup>9</sup>

### Hidden Screen

The Hidden Screen appears when you open a double-hung window and folds away when the window is closed. It allows 44% more natural light into your home when a window is closed than a standard screen.<sup>10</sup> Hidden Screen cartridge available in Black, White, Brown, Fossil and Iron Ore colors to match or complement the exterior cladding color choice.

### Rolscreen®

Rolscreen soft-closing retractable screens roll out of sight when not in use. Available on casement and awning windows and sliding patio doors.

### InView™

InView flat screens let in 14% more light and are 8% more open for improved airflow when compared to the conventional fiberglass screen.<sup>11</sup>

## Performance Packages

To make things easier, we've created performance packages.

Performance solutions offer an unbeatable combination of energy efficiency, sound control and value.<sup>1</sup> Create room-by-room solutions with the upgraded triple-pane glass design.

All values below are averages compared with single-pane windows.



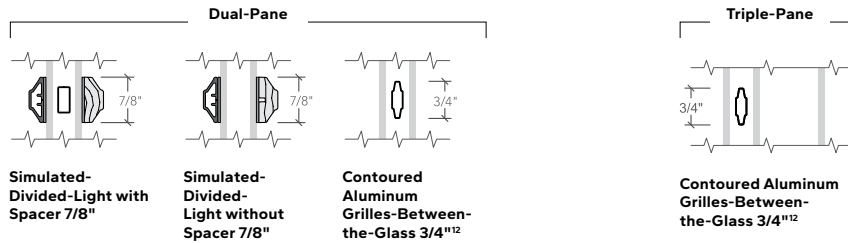
Pella® Lifestyle Series offers products awarded ENERGY STAR® Most Efficient for 2023.<sup>4</sup>

Base	Performance 71% More Energy Efficient <sup>10</sup> + 34% Noise Reduction <sup>5</sup>	Sound Control 52% Noise Reduction <sup>5</sup>	Energy Efficiency 83% More Energy Efficient <sup>10</sup>	Ultimate Performance 79% More Energy Efficient <sup>10</sup> + 52% Noise Reduction <sup>5</sup>
<p><b>Advanced Low-E</b></p> <p>Two panes of insulating, energy-efficient glass and our most popular features and options.</p>	<p><b>Advanced Low-E SunDefense Low-E or NaturalSun Low-E</b></p> <p>A triple-pane glass design for a combination of both improved energy efficiency and sound performance.</p>	<p><b>Advanced Low-E, SunDefense Low-E or NaturalSun Low-E Sound-reduction glazing</b></p> <p>Triple-pane glass design featuring mixed glass thicknesses for enhanced sound dampening.</p>	<p><b>AdvancedComfort</b></p> <p>A triple-pane glass design with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.</p>	<p><b>AdvancedComfort Sound-reduction glazing</b></p> <p>A triple-pane glass design featuring mixed glass thicknesses with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.</p>

Patented triple-pane glass design gives flexibility to add integrated blinds or shades without impacting performance.

## Grilles

Choose the look of true divided light or make cleaning easier by selecting grilles-between-the-glass.



### The Best Limited Lifetime Warranty in the Industry

We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.<sup>6</sup>

<sup>1</sup> Compared to leading national wood window brands recommended installation methods for new construction windows.

<sup>2</sup> Comparing average install time and plumb/level/square measurements of leading national wood window brands when installed following the manufacturer's standard installation methods for new construction windows.

<sup>3</sup> Performance solutions require upgrades to triple-pane, AdvancedComfort Low-E and mixed glass thickness. Based on comparing product quotes and published STC/OITC and U-Factor ratings of leading national wood window and patio door brands.

<sup>4</sup> Some Pella products may not meet ENERGY STAR certification in Canada. For more information, contact your local Pella sales representative or go to [nrcan.gc.ca/energy/products/categories/fenestration/13739](http://nrcan.gc.ca/energy/products/categories/fenestration/13739).

<sup>5</sup> Reduction in sound based on OITC ratings of Pella Lifestyle Series windows with respective performance package compared to a single-pane wood or vinyl window with an OITC of 19. Calculated by using the sound transmission loss values in the 80 to 4000 Hz range as measured in accordance with ASTM E-90(09). Actual results may vary.

<sup>6</sup> Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at [pella.com/warranty](http://pella.com/warranty).

<sup>7</sup> Double-hung windows available in dual-pane only.

<sup>8</sup> Available with triple-pane products only.

<sup>9</sup> Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home router with internet connection.

<sup>10</sup> Window energy efficiency calculated in a computer simulation using RESFEN 6.0 default parameters for a 2000 sq. foot new construction single-story home when Pella Lifestyle Series windows with the respective performance package are compared to a single-pane wood or vinyl window. The energy efficiency and actual savings will vary by location. The average window energy efficiency is based on a national average of 94 modeled cities across the country and weighting based on population. For more details see [pella.com/methodology](http://pella.com/methodology).

<sup>11</sup> Improved airflow is based on calculated screen cloth openness. Screen cloth transmittance was measured using an integrated sphere spectrophotometer.

<sup>12</sup> Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.





TruDefinition®  
**DURATION®**

Shingles with Patented SureNail® Technology  
Tejas con tecnología patentada SureNail®



Driftwood®





## TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System® gives you the assurance that all of your Owens Corning roofing components are working together to help increase the performance of your roof.

## PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para cubiertas de Owens Corning funcionan en conjunto para mejorar el desempeño de su techo.

### SEAL. SELLAR.

#### Helps create a waterproof barrier

Ayuda a crear una barrera impermeable

### DEFEND. DEFENDER.

#### Helps protect against nature's elements

Protege contra los elementos climáticos

### BREATHE. RESPIRAR.

#### For balanced attic ventilation

Para una ventilación equilibrada del ático

**Hip & Ridge shingles**  
Tejas de limatesa y cumbre

**Laminate shingles**  
Tejas laminadas

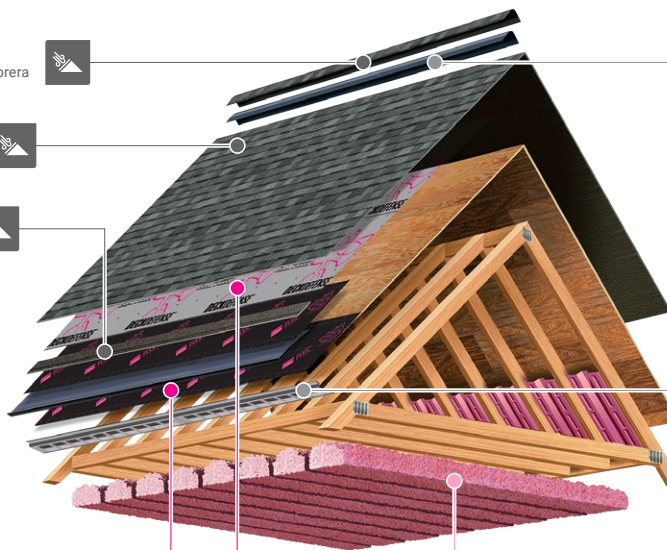
**Starter shingles**  
Tejas de arranque

**Self-adhered ice & water barrier**  
Barrera autoadhesiva contra el hielo y el agua

**Synthetic underlayment**  
Membrana impermeabilizante sintética

**Exhaust vents**  
Salidas de aire

**Intake vents**  
Entradas de aire



### + COMFORT. CONFORT.

**Add comfort and energy performance**  
Más confort y desempeño energético

**PINK® Fiberglas™ blown-in attic insulation**  
Aislamiento para áticos PINK® Fiberglas™ aplicado por impulsión

## REGISTER YOUR WARRANTY

Registering your Owens Corning® warranty ensures it's easily referenced should you ever need to access it. The process is easy—just have your installation date, shingle type, shingle color and number of squares ready. Then go online to [www.owenscorning.com/roofingstandardwarranty](http://www.owenscorning.com/roofingstandardwarranty) or call 1-800-ROOFING (1-800-766-3464) to finish the process.



## REGISTRE SU GARANTÍA

Al registrar su garantía de Owens Corning® la podrá consultar rápidamente si fuera necesario acceder a ella. El proceso es simple: tenga a mano la fecha de instalación, el tipo y color de tejas y la cantidad de cuadrados. Luego, visite [www.owenscorning.com/roofingstandardwarranty](http://www.owenscorning.com/roofingstandardwarranty) o llame al 1-800-ROOFING (1-800-766-3464) para completar el proceso.



### SCAN TO REGISTER YOUR WARRANTY

Escanee para registrar su garantía

# DEEP DIMENSION OUTSTANDING PERFORMANCE

## Duration® Shingles offer:

- The high-performance of SureNail® Technology
- A TruDefinition® Color Platform
- A Limited Lifetime Warranty\*† for as long as you own your home
- The protection of a 130-MPH\* wind warranty
- StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty<sup>3/8</sup>
- Rated Class 3 for Impact Resistance<sup>6</sup> and may qualify for a homeowner insurance discount<sup>7</sup>

# UNA NUEVA DIMENSIÓN DESEMPEÑO SOBRESALIENTE

## Las tejas Duration® ofrecen:

- El gran desempeño de la tecnología SureNail®
- La gama de colores TruDefinition®
- Una garantía limitada de por vida\*† mientras sea propietario de la vivienda
- La protección de una garantía contra vientos de hasta 210 km/h (130 mph)\*
- Protección StreakGuard® con una garantía limitada de 25 años de resistencia a las algas <sup>3/8</sup>
- Clasificación nominal 3 para resistencia a los impactos<sup>6</sup> y puede ser aplicable a descuento por seguro del propietario<sup>7</sup>



## Don't let black streaks lower the value or curb appeal of your home.

Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.

## No deje que las manchas de algas afecten al valor o aspecto de su vivienda.

En sus coloridas tejas, Owens Corning añade gránulos especiales con recubrimiento de cobre, desarrollados por 3M, un productor líder de gránulos para techos. Esto ayuda a prevenir la proliferación de algas azul-verdosas.



## THE FINISHING TOUCH

# OWENS CORNING® HIP & RIDGE SHINGLES

Owens Corning® Hip & Ridge Shingles are uniquely color matched to TruDefinition® Duration® Shingles. The multiple color blends are only available from Owens Corning Roofing and offer a finished look for the roof.

## EL TOQUE FINAL

# TEJAS DE LIMATESA Y CUMBRERA DE OWENS CORNING®

Las tejas de limatesa y cumbrera de Owens Corning® se ofrecen en una exclusiva gama de colores para combinar con las tejas Duration® TruDefinition®. Esta gran variedad de combinaciones de colores es una exclusividad de Owens Corning Roofing para lograr techos con un acabado único.

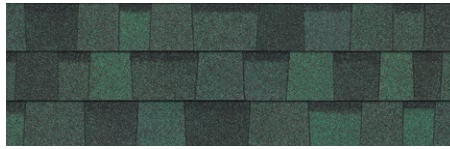
TruDefinition®

# DURATION®

Shingles with Patented SureNail® Technology | Tejas con tecnología patentada SureNail®



**Brownwood**<sup>1</sup>



**Chateau Green**<sup>1</sup>



**Colonial Slate**<sup>1</sup>



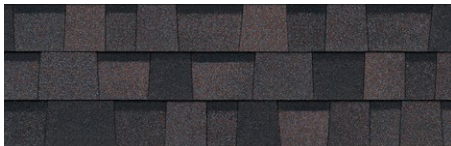
**Desert Rose**<sup>1</sup>



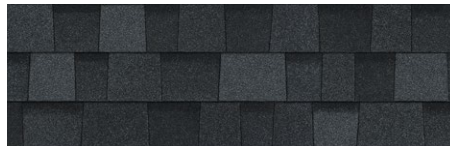
**Driftwood**<sup>1</sup>



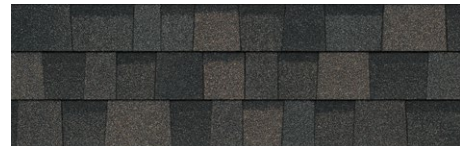
**Estate Gray**<sup>1</sup>



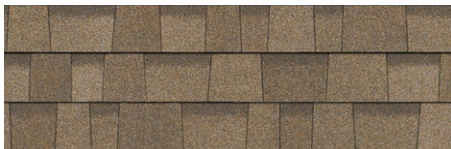
**Midnight Plum**<sup>1/5</sup>



**Onyx Black**<sup>1</sup>



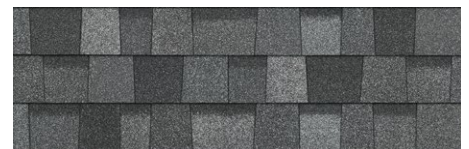
**Peppercorn**<sup>1</sup>



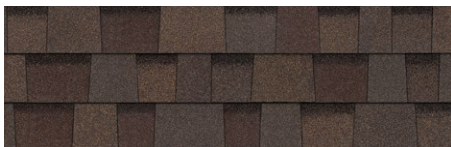
**Sand Castle**<sup>1</sup>



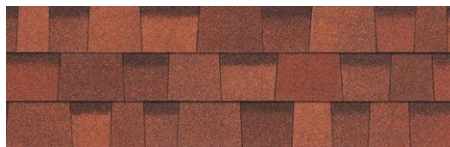
**Sierra Gray**<sup>1</sup>



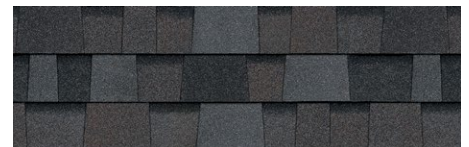
**Slatestone Gray**<sup>1</sup>



**Teak**<sup>1</sup>



**Terra Cotta**<sup>1</sup>



**Williamsburg Gray**<sup>1</sup>

## COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

## DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

En tanto que especialistas en color, sabemos que obtener el color de teja perfecto es una parte importante en toda compra de techos. Debido a las variaciones en los colores impresos, además de mirar folletos de tejas, le sugerimos que solicite una muestra de la teja para ver como se verá en su hogar y con los elementos externos de la vivienda bajo distintas condiciones de luz natural. Finalmente, le recomendamos que para verificar su elección de colores, vea cómo lucen las tejas ya instaladas en una vivienda; su contratista de techos o su proveedor le pueden dar una muestra e incluso indicarle dónde ver un techo ya instalado.

# THERE'S A LINE BETWEEN A GOOD SHINGLE AND A GREAT SHINGLE.®

It's the nailing line on your shingles. The difference between a good shingle and a great shingle is having Patented SureNail® Technology, only from Owens Corning.

## HAY UNA GRAN DIFERENCIA ENTRE UNA BUENA TEJA Y UNA TEJA EXCELENTE™

Es la línea de clavado en su tejas. La diferencia entre una buena teja y una teja excelente es la tecnología patentada SureNail®, una exclusividad de Owens Corning.

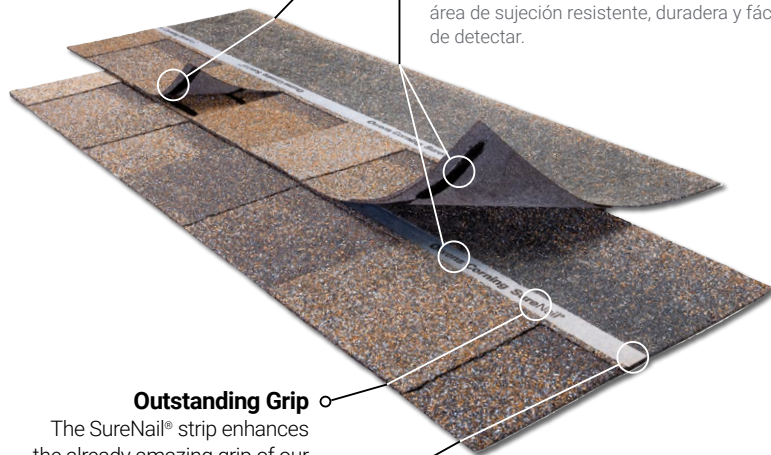


### Excellent Adhesive Power

Helps keep the shingle layers laminated.

### Excelente poder adhesivo

Ayuda a conservar el laminado de las capas de las tejas.



### Outstanding Grip

The SureNail® strip enhances the already amazing grip of our proprietary Tru-Bond®\*\* sealant for exceptional wind resistance of a 130-MPH wind warranty.

### Agarre excepcional

La banda SureNail® mejora el excelente agarre de nuestro sellador patentado Tru-Bond®\*\* con una garantía de resistencia al viento excepcional de 210 km/h (130 mph).

### Breakthrough Design

Patented SureNail® Technology is the first and only reinforced nailing zone on the face of the shingle.

### Diseño innovador

La tecnología patentada SureNail® es la primera y la única que provee un área de clavado reforzada en la cara de la teja.

### "No Guess" Wide Nailing Zone

This tough, engineered woven-fabric strip is embedded in the shingle to create an easy-to-see, strong, durable fastener zone.

### Área de clavado ancha, sin cálculos "a ojo"

Esta banda resistente de tela mecánica tejida está incrustada en la teja para proveer un área de sujeción resistente, duradera y fácil de detectar.

### Triple Layer Protection®\*

A unique "triple layer" of reinforcement occurs when the fabric overlays the two shingle layers, providing increased protection against "nail pull" from the wind.

### Triple Layer Protection®\*

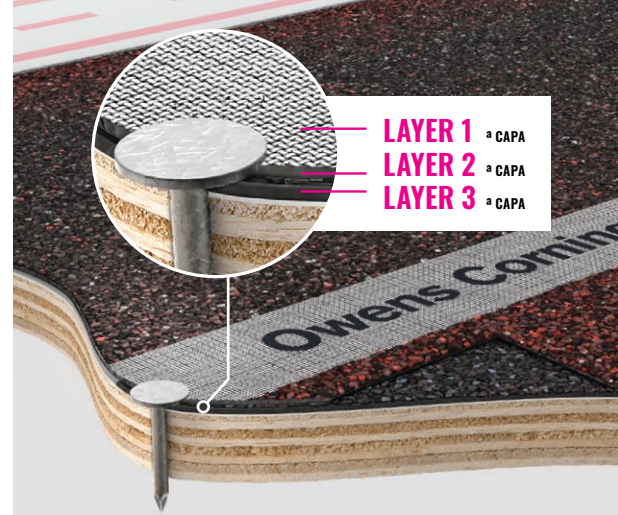
Cuando la tela cubre las dos capas de la teja, se forma una "triple capa" de refuerzo excepcional que ofrece una mayor protección ante el "arranque de clavos" debido al viento.

### Double the Common Bond

SureNail® features up to a 200% wider bond between the shingle layers in the nailing zone over standard shingles.

### Duplica la adherencia común

En comparación con las tejas comunes, SureNail® ofrece un área de unión hasta un 200 % más ancha entre las capas de la teja en el área de clavado.

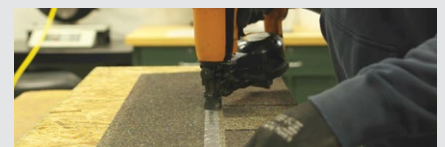


## THE PROOF IS IN THE PERFORMANCE LA PRUEBA ESTÁ EN EL DESEMPEÑO



Up to  
**2.5X**  
BETTER  
NAIL PULL-THROUGH RESISTANCE

Hasta  
**2.5X**  
MEJOR  
RESISTENCIA A LA TRACCIÓN DE LOS CLAVOS



Up to  
**9X**  
BETTER  
NAIL BLOW-THROUGH RESISTANCE

Hasta  
**9X**  
MEJOR  
RESISTENCIA AL DESPRENDIMIENTO DE LOS CLAVOS



Up to  
**2X**  
BETTER  
DELAMINATION RESISTANCE

Hasta  
**2X**  
MEJOR  
RESISTENCIA A LA DELAMINACIÓN

## Product Attributes

### Warranty Length\*†

Limited Lifetime  
(for as long as you own your home)

### Wind Resistance Limited Warranty\*

130-MPH

### Algae Resistance Limited Warranty\*‡

25 Years

### TRU PROtection® Non-Prorated Limited Warranty\* Period

10 Years



## TruDefinition® Duration® Shingles Product Specifications

Size	13¼" x 39⅜"
Application Exposure	5⅝"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

## Applicable Standards and Codes

ASTM D3462

ASTM D228

ASTM D3018 (Type 1)

ICC-ES AC438#

ASTM D3161 (Class F Wind Resistance)

ASTM D7158 (Class H Wind Resistance)

ASTM E108/UL 790 (Class A Fire Resistance)

UL 2218 (Class 3 Impact Resistance)⁵

FM 4473 (Class 3 Impact Resistance)⁶

PRI ER 1378E01

Florida Product Approval

Miami-Dade County Product Approval²

## Características del producto

Período de garantía\*†

Garantía limitada de por vida  
(mientras sea propietario de la vivienda)

Garantía limitada de resistencia al viento\*

210 km/h (130 mph)

Garantía limitada de resistencia a las algas\*‡

25 años

Período no prorrateado de garantía limitada TRU PROtection®

10 años



## Especificaciones de las tejas Duration® TruDefinition®

Tamaño	33.65 x 100 cm (13¼ x 39⅜ pulg)
Exposición de aplicación	14.3 cm (5⅝ pulg)
Tejas por paquete	20 como mínimo
Cantidad promedio de tejas por 3 paquetes	64
Cobertura promedio por 3 paquetes	9.14 m² (98.4 pies²)

## Normas y códigos pertinentes

ASTM D3462

ASTM D228

ASTM D3018 (Tipo 1)

ICC-ES AC438#

ASTM D3161 (Resistencia al viento, Clase F)

ASTM D7158 (Resistencia al viento Clase H)

ASTM E108/UL 790 (Resistencia al fuego Clase A)

UL 2218 (Resistencia a impactos de clase 3)⁵

FM 4473 (Resistencia a impactos de clase 3)⁶

PRI ER 1378E01

Aprobación del producto en el estado de Florida

Producto aprobado por el condado de Miami-Dade²

\* See actual warranty for complete details, limitations and requirements.

† 40-Year Limited Warranty on commercial projects.

‡ Owens Corning testing against competing products with wide, single-layer nailing zones when following manufacturers' installation instructions and nailing in the middle of the allowable nailing zone.

\*\* Tru-Bond® is a proprietary premium weathering-grade asphalt sealant that is blended by Owens Corning Roofing® and Asphalt, LLC.

+ The amount of Triple Layer Protection® may vary on shingle-to-shingle basis.

# International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

1 See Color Disclaimer information on page 3 for additional details.

2 Applies to all areas that recognize Miami-Dade Notice of Acceptance (NOA).

3 Shingles are algae resistant to control the growth of algae and discoloration.

§ Installation must include use of an Owens Corning® Hip & Ridge product. See actual warranty for details.

5 Owens Corning® Bourbon and Midnight Plum shingles include a patent pending design.

6 Qualifying Owens Corning Hip & Ridge Shingles may be required to complete a UL 2218 and/or FM 4473 Class 3 Impact-Resistant Roof System. Due to the variability in real storm conditions, a Class Rating on any product does not guarantee that it will withstand damage from hailstorms or other acts of God. Owens Corning shingles are not covered under a warranty for hail damage.

7 Homeowners should check with their insurance company to see if they qualify.

SureNail® Technology is not a guarantee of performance in all weather conditions.

For patent information, please visit [owenscorning.com/patents](http://owenscorning.com/patents).

\* Consulte la garantía para obtener una lista completa de detalles, limitaciones y requisitos.

† Garantía limitada de 40 años para proyectos comerciales.

‡ Ensayos comparativos de Owens Corning con productos de la competencia con zonas de clavado ancho de una sola capa cuando se siguen las instrucciones de instalación del fabricante y se clava en el medio de la zona de clavado permitida.

\*\* Tru-Bond® es un sellador asfáltico patentado de calidad premium formulado por Owens Corning Roofing® and Asphalt, LLC.

+ La cantidad de Triple Layer Protection® puede variar entre una teja y otra.

# Criterios de aceptación de los servicios de evaluación del Consejo Internacional de Códigos para tejas asfálticas alternativas.

^ Se excluyen productos para techos no fabricados por Owens Corning®, como tapajuntas, sujetadores, bases de tubos y estructuras de madera.

1 Para obtener más información, consulte el Descargo de responsabilidad sobre los colores, en la página 3.

2 Aplicable a todas las zonas que reconocen el Aviso de aceptación (NOA, Notice of Acceptance) del condado de Miami Dade.

3 Las tejas son resistentes a las algas para controlar su desarrollo y la decoloración.

§ La instalación debe incluir el uso de un producto para limatesa y cumbre de Owens Corning®.

5 Las tejas de Owens Corning® Bourbon y Midnight Plum incluye un diseño con patente pendiente.

6 Es posible que se requiera el uso de tejas aptas para limatesa y cumbre de Owens Corning para completar un sistema de techo resistente a impactos UL 2218 y/o FM 4473 Clase 3. Debido a la variación de las condiciones de tormenta real, una calificación de clase en cualquier producto no garantiza que soportará daños por tormentas de granizo u otros casos fortuitos. Las tejas de Owens Corning no están cubiertas por una garantía por daños de granizo.

7 Los propietarios deben verificar con su aseguradora para saber si califican.

La tecnología SureNail® no es una garantía de desempeño en todos los tipos de condiciones climáticas.

Para información sobre la patente, visite [www.owenscorning.com/patents](http://www.owenscorning.com/patents).



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