

**REQUEST FOR PROPOSAL**

**REQUEST FOR PROPOSAL  
FOR THE  
TULALIP DATA SERVICES EXTERIOR SIDING REPLACEMENT  
*January 7, 2019***

**1.0 INTRODUCTION**

The Tulalip Tribes of Washington ("Tribes") are soliciting Tulalip Tribal Business to submit a Proposal for the removal of existing siding and replacement of 1320 Sqft (est) of the existing exterior siding and 2,050 LF (est) of trim.

The contractor will be liable to provide (not limited to): 1320 Sqft (est) *James Hardie shingles straight edge pre-primed siding*, 2,050 Lf +/- *pre-primed WhiteWood*, Tyvec house wrap, (galv) finish nails, galv coil nails, white aluminum flashing, all-weather white caulking, disposal of construction debris, and any materials not mentioned to complete the task above.

All submissions will be required to include evidence of experience in projects of similar scale and complexity along with bonding capability in excess of the estimated cost of construction.

Native American Preference related to contracting, subcontracting and suppliers in the project is required. Proposers shall abide by The Tulalip Code, Chapter 9.05 – TERO Code which provides NAOB preference in contracting goods and services. Additionally, The Tulalip Tribes' Board of Directors has the authority to require those employers subject to The Tulalip Code, Chapter 9.05 – TERO Code and applicable federal laws and guidelines, to give preference to Indians in hiring, promotions, training, and all other aspects of employment. Bidders shall comply with The Tulalip Code and the rules, regulations, and orders of the TERO Commission. For more information about

The Tulalip Code, Chapter 9.05 – TERO Code, contact The Tulalip Tribes' TERO Department at 6406 Marine Drive, Tulalip, Washington 98271, Office (360) 716- 4747. The Tulalip TERO Code is available for review on the Tulalip TERO website: [www.tulaliptero.com](http://www.tulaliptero.com).

## **2.0 SUBMITTAL DEADLINE**

- Two (2) bound copies in a sealed envelope. Submission containing the information and documentation requested in this RFP must be received at the Quil Ceda Village Administration office no later than **2:00 p.m. on 02-04-2019**. Submittals sent by mail or courier shall be sent to the address below. Faxed or e-mailed submittals will not be accepted.

Lukas Reyes, Owner's Representative Quil Ceda Village Project Management

8802 27<sup>th</sup> Ave NE, Tulalip WA 98271

lreyes@tulaliptribes-nsn.gov

(360) 716-5022

## **3.0 INFORMATIONAL MEETING**

Quil Ceda Village  
Conference Room:  
8802 27<sup>th</sup> Ave Ne

Tulalip, WA 98271-9694

**01-17-2019 at 10:00 am**

The purpose of the pre-submission meeting is to address any questions regarding the remodeling project.

All interested Tulalip Contractors are encouraged to attend the Pre-submission Meeting and visit the project site in order to acquaint themselves with the local conditions under which the work will be performed and to obtain personal observations of the project site.

## **4.0 PROJECT DESCRIPTION**

Remove and replace 1320 Sqft (est) of existing siding. Existing siding to be replaced with James Hardie straight edge shingles. Removal and replace of existing first floor window treatment. Removal and replace of belly band and kick plate. With a total of 2,050 Lf (est) of WhiteWood. Repair of existing window treatments as needed. Replace any damaged Sheathing when exposed. Install new flashing. Caulk all trim and nail holes.

Selected Contractor will be required to supply, but not limited to:

1. Nails
2. Caulking (all-weather White)
3. Flashing (pre-fabricated aluminum white)
4. House Wrap (tyvec house wrap)
5. Sheathing (as needed)
6. Equipment and tools required to complete the project
7. Disposal of project related debris
8. 1320 Sqft (est) of James Hardie shingles straight edge pre-primed
9. 2,050 Lf (est) of Misc sizes Pre-primed Whitewood

## **5.0 SCOPE OF SERVICES**

This Request for Proposal is for a Remodeling construction project contract. The following outline of services to be provided is not a complete listing of services. The Contractor selected shall be responsible for providing all necessary equipment, tool and project scope experience. During preconstruction the Contractor shall actively participate as a member of the project team with the Owners representative.

The Contractor will work collaboratively and proactively with the Owner to proceed with scheduling, of the Work in a manner which supports the Owner's efforts to keep costs within the Owner's budget. The contractor shall provide services, including but not limited to:

1. Safe work practices and requirements for construction;
2. Assessing and recommending site logistics requirements;
3. Phasing, sequencing of work and construction scheduling;
4. Provide a cost estimate including general conditions
5. Remove existing exterior siding (foam textured brick panels)
6. Install new James Hardie straight edge shingles (panels) per manufactures recommendation
7. Remove and replace window treatments (first floor windows only)
8. Repair any other window treatments that maybe needed upon approval of the project manager
9. Remove and replace existing belly band trim
10. Remove and replace existing kick plate
11. Install new flashing throughout the re-modeled area
12. Remove and Replace existing House wrap behind existing siding
13. Caulk all exposed nail heads, around window casings and trim
14. Remove and replace any damaged sheathing upon approval of the project manager

## **6.0 SELECTION AND AWARD PROCESS**

The intent of this RFP is to solicit interest from the Tulalip contracting community in the construction of the siding re-model located at the Tulalip Data Services (TDS) building. Selection will be made based upon the evaluation of the contractor's or team's capability and cost of the project.

The process for selection of the Contractor, commencing Preconstruction Services, and negotiating the Guaranteed Maximum Price Contract ("Contract") is anticipated to be as follows:

1. The Tulalip Contractors submitting a proposal will be scored and ranked on the basis of the evaluation criteria set forth in this RFP.
2. The Tulalip Tribes reserves the right to check references of the Contractor(s) at any time during the selection process. Should the information obtained during the reference checks cause concern regarding the firm's past performance or their ability to successfully perform the contracts to be executed based on the requirements of this RFP, the Tulalip Tribes has the sole discretion to determine a Contractor is not qualified for the Project. References can include The Tulalip

Tribes, provided the Contractor has performed past project with the Tulalip Tribes, and others whether specifically listed by the proposing firm or not.

## **7.0 SUBMISSION FORMAT**

Every Proposer must reply to each of the evaluation criteria set forth below in a clear and concise manner. Responses must be in the same order as listed, clearly separated and labeled by response. Brevity is preferred. Do not duplicate information presented in the Submission. Pay attention to specific requests for information. Organize the Submission in a manner that enables the selection committee to quickly access the requested, and pertinent, information. Submissions shall be submitted on 8 ½ x 11 pages unless otherwise requested and in a sealed envelope.

**1.TERO Certification:** Native American Owned Businesses (NAOBs) submitting proposals shall submit evidence of certification from the Tulalip Tribes' TERO (Tribal Employment Rights Ordinance) office as being a certified NAOB or Tulalip Tribal Member NAOB with their Submission in order to obtain the preferences provided for in this RFP.

**2. Proof of Bond and insurance**

**3. Washington State business license**

**4. Detailed cost estimate**

## **8.0 FINAL SELECTION**

The Tulalip Tribes of Washington intend to select the Contractor that meets the criteria set above from the Submission of this RFP. Final selection shall be at the sole discretion of the Quil Ceda Village Project management team.

## **9.0 PRECONSTRUCTION PHASE WORK PLAN**

Within seven (7) days of notification of its selection, the Contractor will be required to submit a Preconstruction Phase Work Plan for Work during preconstruction.

If the Preconstruction Phase Work Plan is not satisfactory the Owner will advise the Contractor of the shortcomings in the Preconstruction Phase Work Plan. The Contractor will not be entitled to any compensation under this paragraph until a Preconstruction Phase Work Plan, satisfactory to the Owner, is provided and an Agreement for Preconstruction Work is executed. Failure to submit a Preconstruction Phase Work Plan within fourteen (14) calendar days of the Contractor selection, that is acceptable to and approved by the Owner, may result in the Owner canceling the Contractor selection. The Owner may then, at its discretion, begin discussions with the next highest Contractor.

## **10.0 RIGHT OF REJECTION**

The Tulalip Tribes of Washington reserves the right to reject any and all Submissions and the right to elect not to proceed with the project.

## **11.0 PRODUCT OWNERSHIP**

Any documents or drawings or reports resulting from the contract will be the property of the Tulalip Tribes of Washington.

## **12.0 LICENSING REQUIREMENTS**

All individuals, businesses, entities, and organizations engaged in business activities on the Tulalip Indian Reservation shall obtain a Tulalip Tribal Business License. This applies to all contractors, subcontractors, materialmen, suppliers, and consultants, regardless of tier or location, working on the project.

Contractor shall be licensed by the State of Washington.

Note: Any professional or business licenses required will be the sole cost and responsibility of the Contractor

## **13.0 SUBMISSION DEVELOPMENT COSTS**

The cost of preparing and submitting a Submission is the sole responsibility of the proponent and shall not be chargeable in any manner to the Tribes.

## **14.0 SCHEDULE**

The Tulalip Tribes anticipates the Contractor selection schedule will be as follows:

RFP Issued	01-07-2019
Informational meeting at 10am	01-17-2019
Questions Due	01-21-2019
Response to Questions Issued by	01-28-2019
Submissions Due at 2pm	02-04-2019
Selection	02-08-2019

Questions may be delivered by electronic mail. All requests for interpretation shall be brought to the attention of the Construction Manager in writing no later than Question Due date, indicated above. Questions should be addressed to:

Lukas Reyes, Owner's Representative Quil Ceda Village Project Management  
8802 27<sup>th</sup> Ave NE, Tulalip WA 98271  
lreyes@tulaliptribes-nsn.gov  
(360) 716-5022

## **ATTACHMENTS**

1. James Hardie Shingles manufacture installation requirements

# HardieShingle® *HL10*. Siding



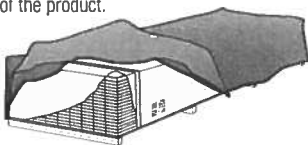
STRAIGHT EDGE, STAGGERED EDGE, HALF ROUNDS & INDIVIDUAL SHINGLES  
INSTALLATION REQUIREMENTS - PRIMED & COLORPLUS® PRODUCTS

EFFECTIVE SEPTEMBER 2013   
Visit [www.jameshardie.com](http://www.jameshardie.com) for the most recent version.

**IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE® INSTRUCTIONS. TO DETERMINE WHICH HARDIEZONE APPLIES TO YOUR LOCATION, VISIT [WWW.HARDIEZONE.COM](http://WWW.HARDIEZONE.COM) OR CALL 1-866-942-7343 (866 9HARDIE)**

## 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

1. Position cutting station so that wind will blow dust away from user and others in working area.
2. Use one of the following methods:
  - a. Best: i. Shears (manual, electric or pneumatic)
  - b. Better: i. Dust reducing circular saw equipped with a HardieBlade® saw blade and HEPA vacuum extraction
  - c. Good: i. Dust reducing circular saw with a HardieBlade saw blade (only use for low to moderate cutting)

### INDOORS

1. Cut only using shears (manual, electric or pneumatic).
  2. Position cutting station in well-ventilated area
- NEVER use a power saw indoors
  - NEVER use a circular saw blade that does not carry the HardieBlade saw blade trademark
  - NEVER dry sweep - Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at [www.jameshardie.com](http://www.jameshardie.com) to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

SD083105

## GENERAL REQUIREMENTS:

- HardieShingle® siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick sheathing. See general fastening requirements.
- Information on installing James Hardie products over foam 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.
- When installing James Hardie® products all clearance details in figs. 1,2,3,4,5,6 & 7 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6" in the first 10'.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardieShingle siding may be installed on vertical wall applications only.
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.

## CLEARANCES

Install siding and trim products in compliance with local building code requirements for clearance between the bottom edge of the siding and the adjacent finished grade.

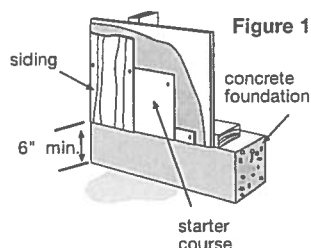


Figure 1

Maintain a minimum 1" - 2" clearance between James Hardie® products and paths, steps and driveways.

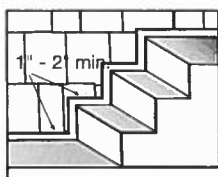


Figure 2

Maintain a minimum 1" - 2" clearance between James Hardie products and decking material.

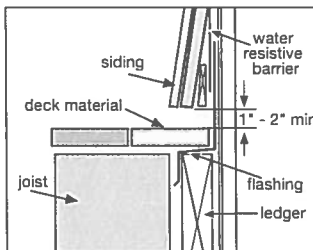


Figure 3

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be installed per the roofing manufacturer's instructions. Provide a minimum 1" - 2" clearance between the roofing and the bottom edge of the siding and trim.

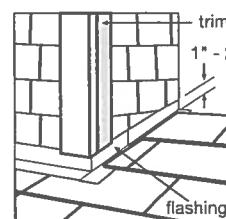


Figure 4

<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)

### WARNING: AVOID BREATHING SILICA DUST

James Hardie® products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a HardieBlade® saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our Installation Instructions and Material Safety Data Sheet available at [www.jameshardie.com](http://www.jameshardie.com) or by calling 1-800-9HARDIE (1-800-942-7343). FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

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Maintain a 1/4" clearance between the bottom of James Hardie® products and horizontal flashing. Do not caulk gap.

Maintain a minimum 1" gap between gutter end caps and siding & trim.

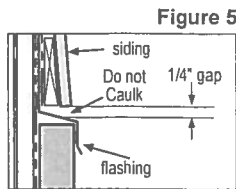


Figure 5

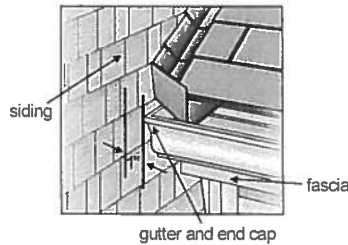
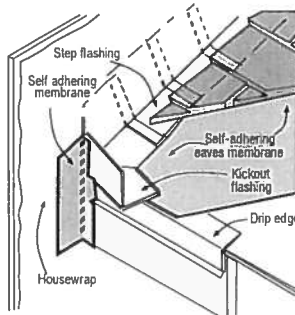


Figure 6

Figure 7



## KICKOUT FLASHING

Because of the volume of water that can pour down a sloped roof, one of the most critical flashing details occurs where a roof intersects a sidewall. The roof must be flashed with step flashing. Where the roof terminates, install a kickout to deflect water away from the siding.

It is best to install a self-adhering membrane on the wall before the subfascia and trim boards are nailed in place, and then come back to install the kickout.

**Figure 7, Kickout Flashing** To prevent water from dumping behind the siding and the end of the roof intersection, install a "kickout" as required by IRC code R905.2.8.3 : "...flashing shall be a min. of 4" high and 4" wide." James Hardie recommends the kickout be angled between 100° - 110° to maximize water deflection

## TRIM CONSIDERATION:

Minimum 1" trim thickness is needed as Panels stack at a depth of roughly 15/16" for the 7" reveal. If additional trim depth is desired, you can place a spacer under the trim (Fig. 8C & 8D).

## BLOCKED PENETRATIONS

Penetrations such as hose bibs and holes 1 1/2" or larger such as dryer vents should have a block of trim around point of penetration.

Figure 8A

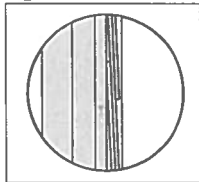


Figure 8B

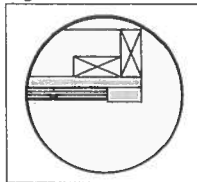


Figure 8C

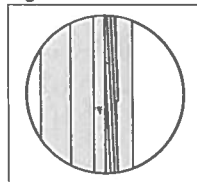
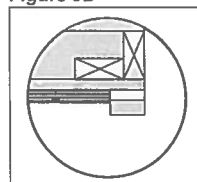


Figure 8D



## GABLE INSTALLATION:

Installation over sheathing is recommended (Required for Individuals) for gables.\*

- 1) Find the center stud of your of your Gable and snap a chalk line down
- 2) Measure out 16"\* to both the left and the right of the center line and snap a chalk line
- 3) Measure up 2" if you are off a roof line or 1/4" if you are starting above a band board
- 4) Set the bottom of your 1 1/4" starter strip at that line
- 5) Place your 8 1/4" Starter Course -bottom level with the bottom of the starter strip
- 6) Set your first row of Shingle - starting the first piece at the vertical line left of center  
(If you are using staggered edged shingles Trim down the first row to the shortest shingle length)
- 7) Drive nails approximately 1/4" above Key ways 5 per full panel Center Nail can be either one of the keyways.  
(Stay by keyway to avoid shiners) (EX1) Blue Dots show nail placement
- 8) Measure up 7" with straight and 6" with Staggered edge and snap a chalk line to get your proper exposure
- 9) The second row will start at the center line
- 10) The Third row will start at the line right of center
- 11) As you work your way up the gable make sure you Keep your Cut Pieces you will use the pieces on the edges of the gable (EX2)
- 12) Edges Gable butting into trim leave a 1/8" Gap (for house movement and Caulking)
- 13) Make sure to sure siding nails on the small pieces on the edges (Do not use a trim nail to install!)

Figure 9

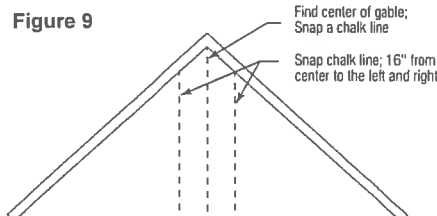


Figure 10

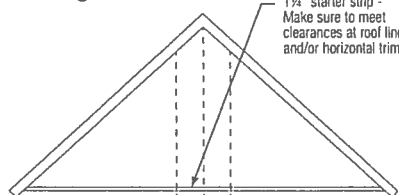


Figure 11

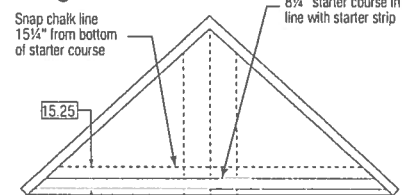


Figure 12

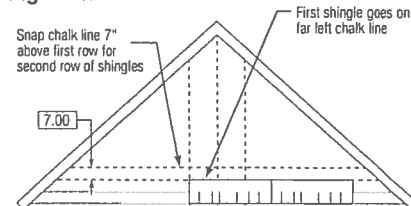


Figure 13

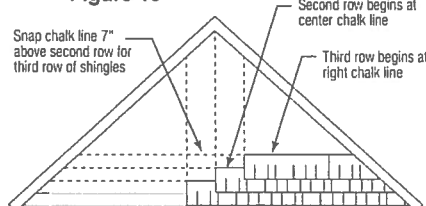
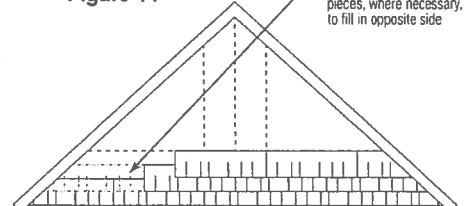


Figure 14



\*Panels can also be installed direct to stud up to 24"OC.

Note: Snapped chalk lines help guide installation, when installing straight edge panels or Individual shingles use a straight edge on bottom edges if uniform straight edge is desired.

## HARDIESHINGLE® STAGGERED EDGE PANELS INSTALLATION

### Fastener Requirements

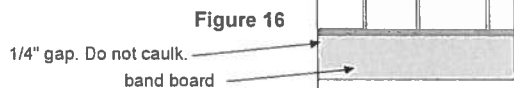
0.083" x 0.187" HD x 1 1/2" long ringshank nails are used for fastening HardieShingle® Staggered Edge Panels to both framing and to 7/16" thick APA rated sheathing.

### HardieShingle® Staggered Edge Panel Installation

Install HardieShingle® panels with joints butted in moderate contact. Due to overlapping of the joints, caulk is not required except where panels abut trim boards. (figs 15 & 17). Ensure keyways do not line up on subsequent courses.

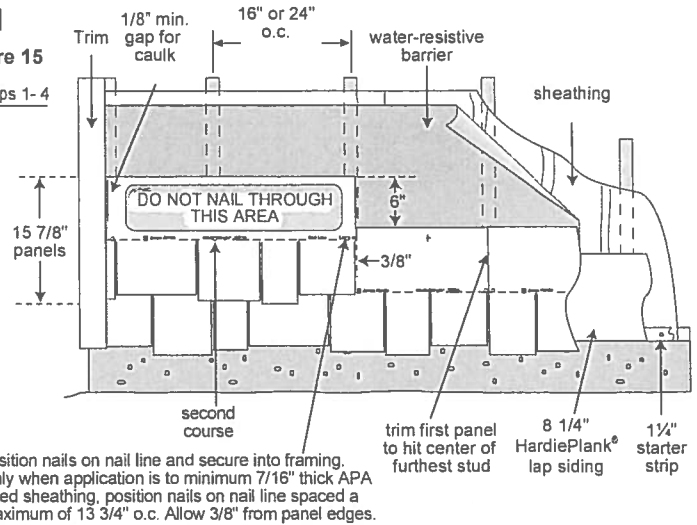
- 1) Install a 1-1/4" starter strip, then install a 8-1/4" wide HardiePlank® lap siding starter course.
- 2) Place first panel so that panel end centers over stud. Trim panel as needed. Butt the cut end into trim as shown (figs 15 & 17). When installing over a band board or any horizontal surface, leave 1/4" gap between bottom of siding and flashing.
- 3) Secure panel, leaving 1/8" gap for caulk at trim and continue the course along the wall.
- 4) Start the second course, by removing the equivalent of one full stud cavity (16" or 24" OC), again abutting the cut end into the trim (figs 15 & 17). This is to prevent pattern repetition. Repeat step 3.
- 5) Start the third course, by removing the equivalent of two full stud cavities (figs 15 & 17) and repeat step 3.
- 6) Continue up the wall repeating steps 2 through 6 until desired height is reached.

**Note:** For aesthetic purposes you may trim the bottom of the panel to create a straight edge. If doing so, ensure all cuts ends are properly sealed and painted (fig 14)

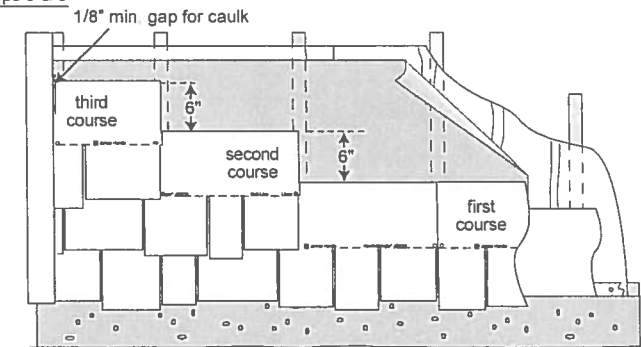


**Figure 15**

Steps 1 - 4



Steps 5 & 6



## HARDIESHINGLE® STAGGERED EDGE PANEL COVERAGE

Panels for sidewall applications are available in 48" lengths. Pieces needed for one square (100sq.ft.) of product coverage = approximately 50, based on a maximum 6" exposure from the top edge of HardieShingle panels in subsequent courses (refer to Figure 15).

## 7" EXPOSURE HARDIESHINGLE® STRAIGHT EDGE PANELS INSTALLATION

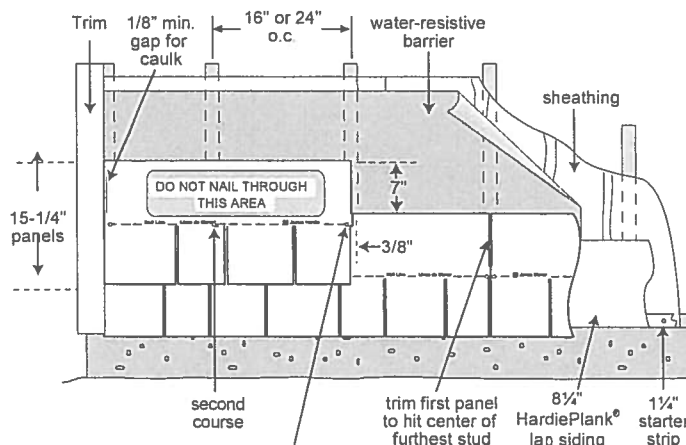
Maximum Exposure of 7"

REFER TO STAGGERED EDGE INSTRUCTIONS ABOVE

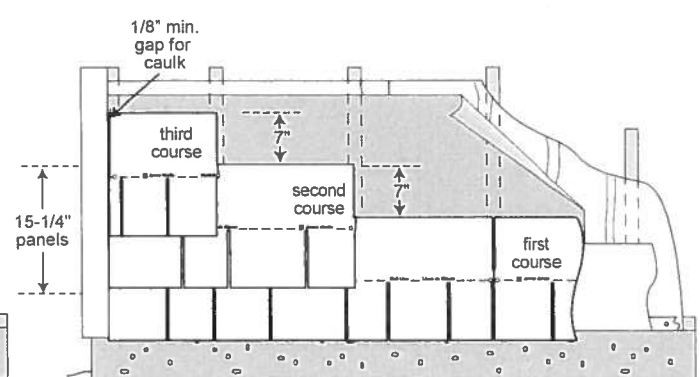
Steps 1 - 4

**Figure 16**

Steps 5 & 6



position nails on nail line and secure into framing. Only when application is to minimum 7/16" thick APA rated sheathing, position nails on nail line spaced a maximum of 13 3/4" o.c. Allow 3/8" from panel edges.



## HARDIESHINGLE® STRAIGHT EDGE PANEL COVERAGE

Panels for sidewall applications are available in 48" lengths. Pieces needed for one square (100sq.ft.) of product coverage = approximately 43, based on maximum 7" exposure.



## HARDIESHINGLE® INDIVIDUAL SHINGLE INSTALLATION

HardieShingle® Individual Shingles must be installed with the widest part of the shingle placed downwards and directly to minimum 7/16" thick sheathing.

### Fastener Requirements

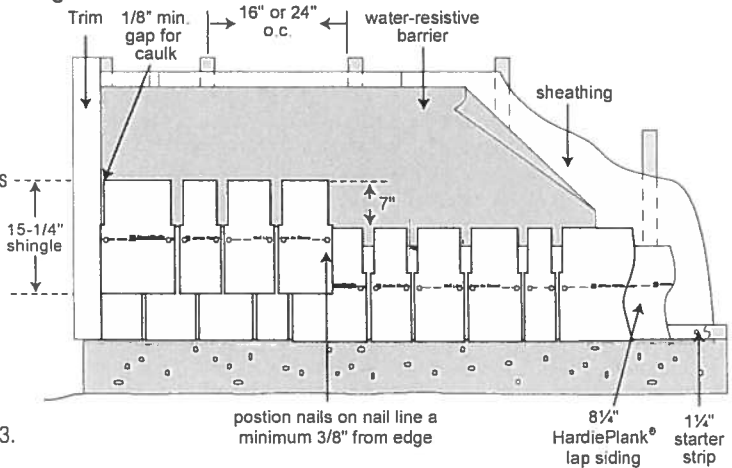
0.091" x 0.221" HD x 1 1/2" or 0.121" x 0.371" HD x 1 1/4" long corrosion resistant siding nails are used for fixing HardieShingle siding to 7/16" thick APA rated sheathing.

### HardieShingle® Individual Shingle Installation

Due to overlapping of the joints, caulk is not required except where panels abut trim boards. Space shingles a maximum 1/4" apart and leave a minimum lap of 1 1/2" between successive courses (fig. 19).

- 1) Install 1 1/4" starter strip and a 8 1/4" wide HardiePlank® siding starter course.
- 2) Install first shingle from the end abutting trim. Install widest part of shingle placed downwards. (fig. 18).
- 3) Secure shingle, leaving a 1/8" gap for caulk at trim and continue the course along the wall.
- 4) Start the second course, leaving a minimum lap of 1 1/2" between successive courses, again from the end abutting the trim. Repeat step 3.
- 5) Continue up the wall repeating steps 2 through 5 until desired height is reached.

Figure 18

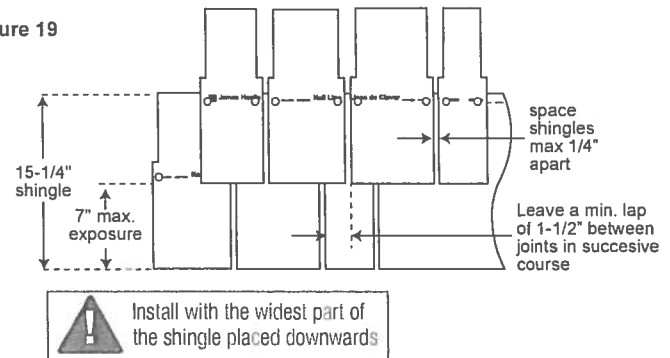


## HARDIESHINGLE® INDIVIDUAL SHINGLE COVERAGE

Individual Shingles for sidewall applications are available in assorted widths as listed below. Bundles needed for one square (100 sq. ft.) of product coverage:

Shingle Width	Number of Bundles	Pieces per Bundle
4-3/16"	3	15
5-1/2"	6	15
6-3/4"	3	15
7-1/4"	6	15
10"	3	15

Figure 19



## HARDIESHINGLE® HALF-ROUND PANELS INSTALLATION

### Fastener Requirements

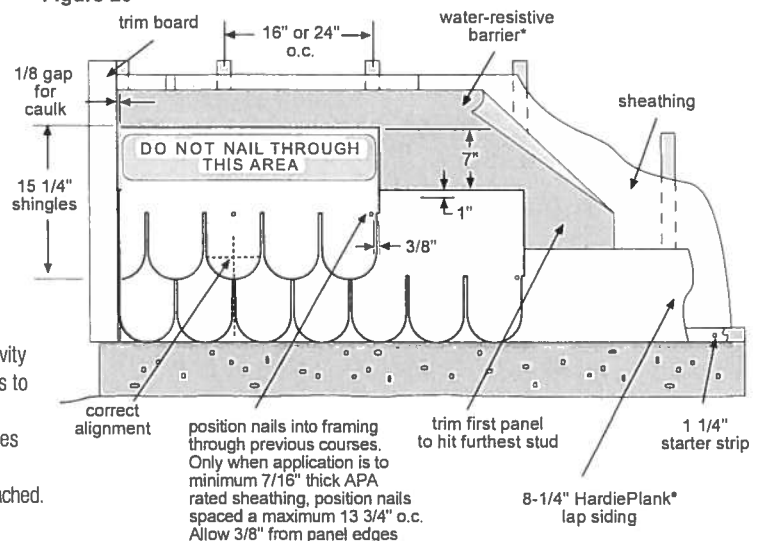
0.083" x 0.187" HD x 1 1/2" long ringshank nails are used for fastening HardieShingle® Half-Round Panels to both framing and to 7/16" thick APA rated sheathing.

### HardieShingle Half-Round Panel Installation

Install HardieShingle® panels with joints butted in moderate contact. Due to overlapping of the joints, caulk is not required except where panels abut trim boards. (fig. 20). Ensure keyways do not line up on subsequent courses.

- 1) Install a 1-1/4" starter strip, then install a 8-1/4" wide HardiePlank® lap siding starter course.
- 2) Place first panel so that panel end centers over stud. Trim panel as needed. Butt the cut end into trim as shown (figs 20). When installing over a band board or any horizontal surface, leave 1/4" gap between bottom of siding and flashing.
- 3) Secure panel, leaving 1/8" gap for caulk at trim and continue the course along the wall.
- 4) Start the second course, by removing the equivalent of one full stud cavity (16" or 24" OC), again abutting the cut end into the trim (fig 20). This is to prevent pattern repetition. Repeat step 3.
- 5) Start the third course, by removing the equivalent of two full stud cavities (figs 15 & 17) and repeat step 3.
- 6) Continue up the wall repeating steps 2 through 6 until desired height is reached.

Figure 20



## HARDIESHINGLE HALF-ROUND PANEL COVERAGE

Panels for sidewall applications are available in 48" lengths. Pieces needed for one square (100 sq. ft.) of product coverage=43 pieces with 7" exposure.

## CORNER DETAILS

- A. Panels butted against corner boards.
- B. Panels butted against square wood strip on inside corner, flashing behind.
- C. Laced outside corner.
- D. Laced inside corner.

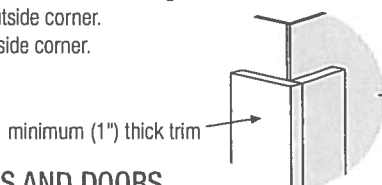
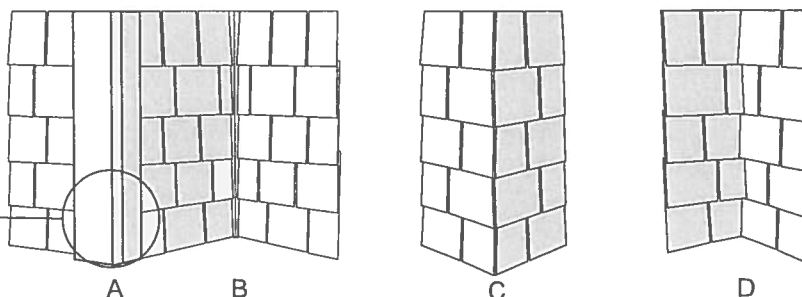


Figure 21



## WINDOWS AND DOORS

Building wall components such as windows, doors and other exterior wall penetrations shall be installed in accordance with the component manufacturer's written installation instructions and local building codes. Where windows or doors are installed, continue the application of siding as if the wall is complete. Trimming for the opening and using the resulting piece may throw off the spacing above the break.

## 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.
- Consult applicable code compliance report 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). (fig. A)
  - Do not over-drive nail heads or drive nails at an angle.
  - If nail is countersunk, fill nail hole and add a nail. (fig. B)
  - For wood framing, under driven nails should be hit flush to the plank with a hammer (For steel framing, remove and replace nail).
  - Do not use aluminum fasteners, staples, or clipped head nails.

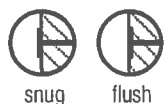


Figure A



Figure B



DO NOT under drive nails  
DO NOT staple

## 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).

## 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: OSI Quad as well as some other caulking manufacturers DO NOT allow tooling.**

## PRIMING & PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products. James Hardie® products must be painted within 180 days for primed product and 90 days for unprimed. In addition non ColorPlus® product versions of HardieShingle® Siding require a field applied prime coat. 100% acrylic primers and topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back rolling is recommended when paint is spray applied.

## 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 HardieShingle® 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.

## 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

**RECOGNITION:** In accordance with ICC-ES Evaluation Report ESR-2290, HardieShingle lap siding is recognized as a suitable alternate to that specified in: the 2006, 2009, & 2012 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 International Building Code. HardieShingle lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida listing FL#889, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, 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

