



Bldg permit 55755

3/7/2023 pd. ck. 1918
\$60.00

BRISTOL HISTORIC DISTRICT COMMISSION
APPLICATION FOR REVIEW OF PROPOSED WORK

23-041

1. Property Address (Street & No.) 410 THAMES ST.

2. Plat # 9 Lot # 8 Contributing _____ Non-Contributing _____

3. a. Applicant: MARSHALL BUILDING + REMODELING

Mailing Address: 152 FORBES ST., RIVERSIDE RI 02915

Phone: Day 401-438-1499 Evening SAME

b. Owner (if different from applicant written authorization of owner required): ROBIN KARIAN

Mailing Address: 37 FACTORY POND CIRCLE, GREENVILLE RI 02888

Phone: Day 401-924-1000 Evening _____

4. a. Architect/Draftsman: N/A

Address: _____

Phone: Day _____ Evening _____

b. Contractor: MARSHALL BUILDING + REMODELING

Address: 152 FORBES ST., RIVERSIDE RI 02915

Phone: Day 401-438-1499 Evening SAME

5. Work Category: _____ Replacing in-kind* authorization required _____

_____ New Structure(s) _____ Partial Demolition of Structure(s)

_____ Addition to Structure(s) _____ Total Demolition of Structure(s)

☒ Remodeling of Structure _____ Sign(s) / Landscaping Features

6. Description of proposed work: REMOVE ONE LAYER OF CEDAR ON BACK SIDE OF HOUSE ONLY & REPLACE WITH (7 SQ) JAMES HARDIE W.G. LAP 5" SIDING. REMOVE & REPLACE ONE LAYER OF ROOFING WITH (1 SQ) GAF TIMBERLINE HDZ ROOFING.

*All changes must match the existing in materials, design and configuration.

2023 MAR -7 PM 1:50

TOWN OF BRISTOL
COMMUNITY DEV.

(Continued): REMOVE + INSTALL ONE HARVEY CLASSIC REPLACEMENT WINDOW
SPECS ATTACHED.

_____ ☐ ☐ Check here if
continued on additional sheets.

7. Included with the application (check those applicable):

PHOTOGRAPHS: Please label all photographs submitted.

☒ Overall view of property from street(s) ☒ Overall views of building
_____ Existing details to be altered by work
_____ Other (Identify) _____

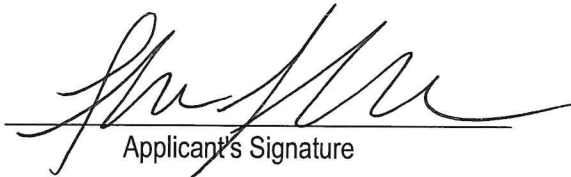
Drawings: Maximum size accepted: 11" x 17"

_____ Site Plan(s) (drawn to scale) _____ Floor plan(s) (drawn to scale)
_____ Exterior Elevations _____ Details

OTHER: _____ Renderings _____ Catalogue Cuts _____ Specifications
_____ Other (Identify) _____

THOMAS F. MARSHALL

Applicant's Name - Printed



Applicant's Signature

Date: 3/2/23

Contact Person if other than Applicant:

Name (Printed): DEREK MENEZES

Phone: Day 401-212-0202 Evening —

A Certificate of Appropriateness (Green Sheet) is valid for one year from the date of issuance.

Note: If work on a project has started within twelve months of its approval date, you have as long as is necessary to finish the job (in other words, longer than a year).

Bristol, RI

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Disclaimer: This information is for tax assessing purposes and is not warranted

Parcel Identification

Map/Lot 9 8
Account 311
State Code 02 - 2-5 Family
Card 1/1
User Account

Assessment

Land \$332,200
Building \$271,900
Card Total \$604,100
Parcel Total \$604,100

Prior Assessments

Fiscal Year	Land Value	Building Value	Outbuilding Value	Total Value
2021	\$319,300	\$220,800	\$2,600	\$542,700
2020	\$319,300	\$220,800	\$2,600	\$542,700
2019	\$319,300	\$220,800	\$2,600	\$542,700
2018	\$256,000	\$195,400	\$0	\$451,400

Location and Owner

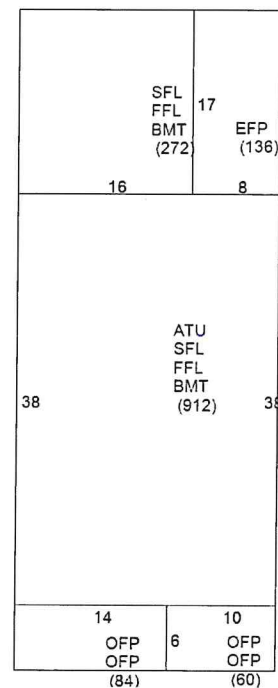
Location 410 THAMES ST
Owner EAGLE AND IVY, LLC
Owner2
Owner3
Address 37 FACTORY POND CIRCLE
Address2
Address3 SMITHFIELD RI 02917

Building Information

Design 2 Family
Year Built 1880
Heat BB Hot Water
Fireplaces 0
Rooms 12
Bedrooms 6
Bathrooms 2 Full Bath
Above Grade Living Area 2,368 SF

Sale Information

Sale Date	Sale Price	Legal Reference	Instrument
12/31/2012	\$290,000	1686-265	Warranty
07/22/1991	\$0	408-94	Warranty
10/15/1980	\$0	232-410	
01/01/1974	\$0	187-1	
01/01/1973	\$0	179-1088	
01/01/1970	\$0	173-1046	
01/01/1960	\$0	138-31	
01/01/1945	\$0	113-83	
01/01/1941	\$0	111-83	
01/01/1936	\$0	104-638	
01/01/1930	\$0	96-374	
01/01/1915	\$0	75-57	



Building Sub Areas

Sub Area	Net Area
1st FLOOR	1,184 SF
2nd FLOOR	1,184 SF
BASEMENT	1,184 SF
ENCLOSED PORCH	136 SF
OPEN PORCH	288 SF
UNFINISHED ATTIC	364.8 SF

Land Information

Land Area 0.155 AC
Zoning W

View -
Neighborhood I

Yard Item(s)

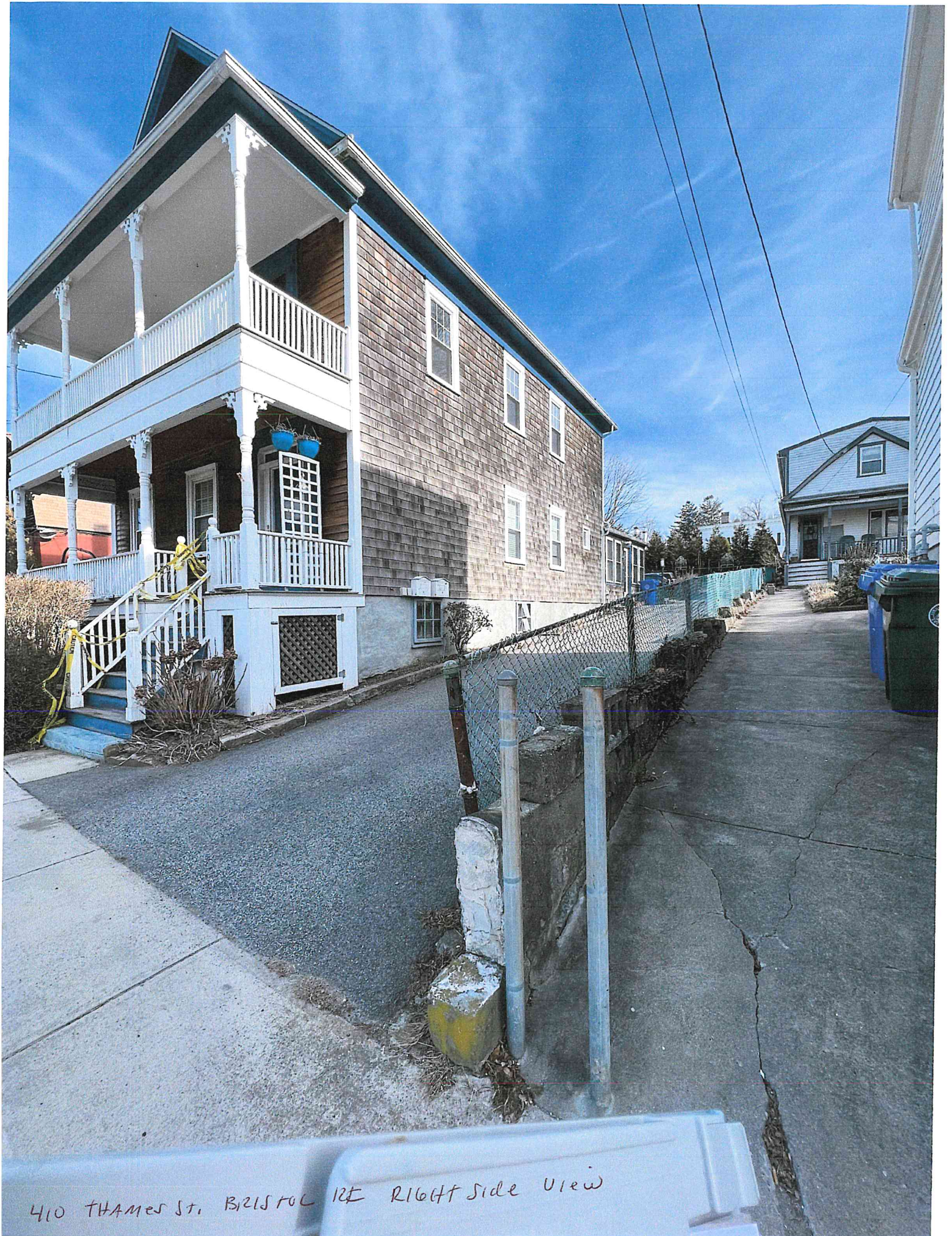
Description	Quantity	Size	Year
Enclosed Porch	1	160	2000
Sump Pump Outside	1	1	2010



[Click To Open AxisGIS Maps](#)



410 THAMES ST. BRISTOL RE STREET VIEW



410 THAMES ST. BRISTOL 12E RIGHT SIDE VIEW



1110 +14420 St B21000 120 1000 0.0 1110

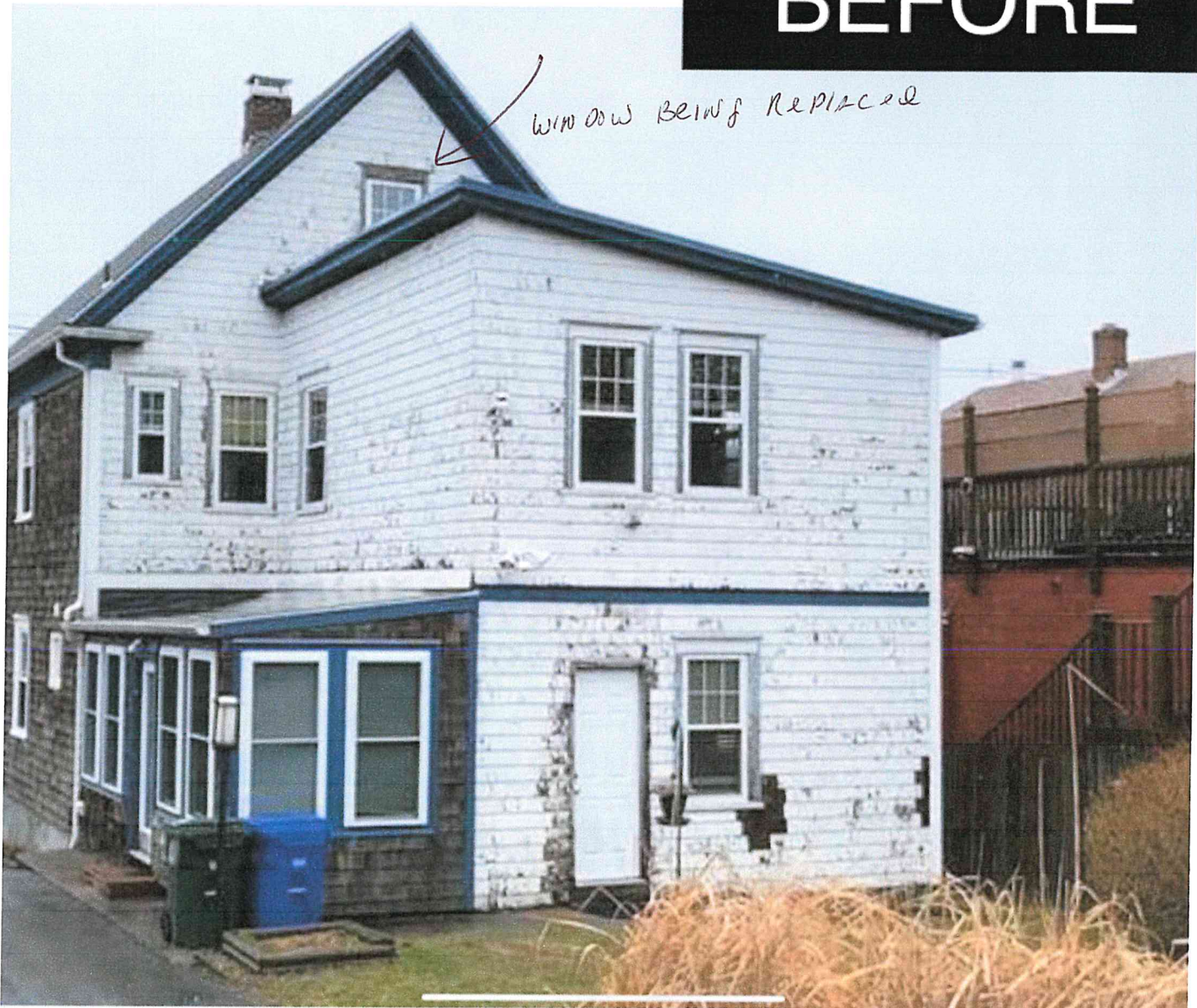
Serving RI & MA
152 Forbes Street
Riverside, RI 02915



RI Reg. #4266
MA HIC #177317
MA CS #030132

rian

BEFORE



410 + HAMES ST, BRISTOL THE REAR VIEW



QUOTE EXPIRES

2/17/2024

Distributor Quote Summary

BILL TO:

LANSING WARWICK/MARSHALL/ELITE
2221 EDWARD HOLLAND DRIVE STE 300
PO BOX 6649

Phone: 804-266-8893

Fax: 8042616743

SHIP TO:

LANSING WARWICK RI
44 COASTWAY BOULEVARD

WARWICK

RI

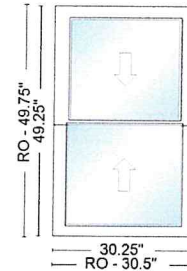
02886-1768

Phone: 401-737-7767

Fax:

QUOTE NBR	CUST NBR	CUSTOMER PO	DATE CREATED	DATE ORDERED	ORDER TYPE
5532501	1142948	926-33	2/21/2023	2/22/2023 12:25:14	Charge
ORDERED BY	STATUS	SHIP VIA	DELIVERY AREA		
Joe H	PendingIntegration	Whse Delivery	Unknown Area		
CLERK		JOB NAME	COUPON		
cjc -Christine Ciaramitaro		Lafazia BTM Sash			

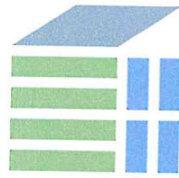
LINE #	DESCRIPTION	QTY	UNIT PRICE	EXTENDED
10000-1	Classic DH Sash Only Bottom Only , Unit Size 30.25 x 49.25, RO 30.5 x 49.75 Sash Only, Size Options = Custom Size, Replacement Part Location = Bottom Only, .270 Wool Pile Required = No, Transactional Order Type = N/A, Remake Type = Charge Order, Replacement, Fully Welded Frame Width (Inches) = 30.25, Frame Height (Inches) = 49.25 Double Glazed, Double Low E, Argon Filled Exterior = White Program = Harvey Elite Dealer, Elite Dealer Labor Warranty = No, Label Name = Harvey, Double, Sash Limit Devices = Night Latch Overall Frame Width (Inches) = 30.25, Overall Frame Height (Inches) = 49.25, Overall Rough Opening Width (Inches) = 30.5, Overall Rough Opening Height (Inches) = 49.75 Clear Opening Width = 25.25, Clear Opening Height = 19.5, Clear Opening Square Footage = 3.42	1		



Room Location: 1 and 2



Scan with Smartphone to access installation
instructions in HBP's Document Center



Marshall

ROOFING • SIDING • WINDOWS

March 3, 2023

Town of Bristol
Historical Commission
235 High Street
Bristol, RI 02809

Re: 410 Thames St.
Building Permit #55755

As requested by the Bristol Historical Commission, we are attaching a copy of the following documents for the above project:

- 1) Application for Review of Proposed Work – Pages 1 & 2
- 2) Check for \$60.00 application fee
- 3) Photos (4) showing all sides of property at 410 Thames St.
- 4) Window specs for Harvey Classic replacement window

Please advise if you need additional information and also the date, time and location of the next meeting that we are required to attend.

Thanks for your help,

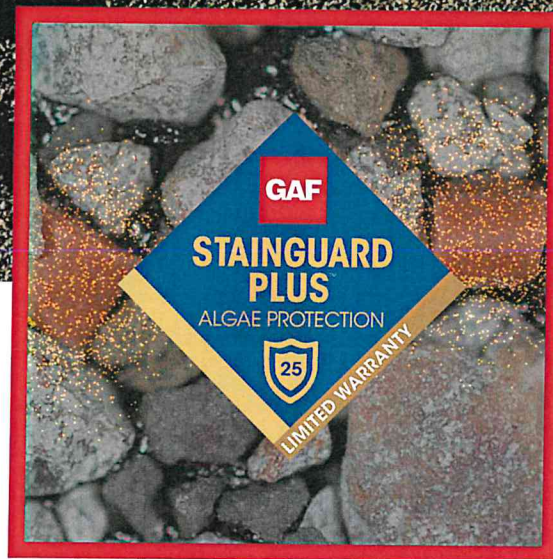
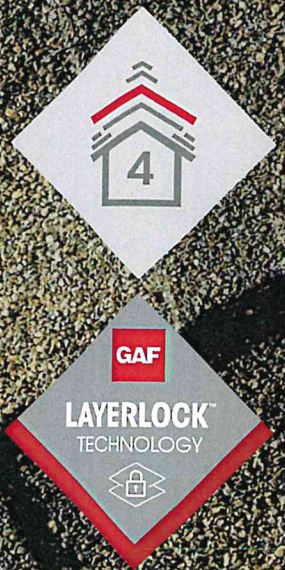
Jackie Ramos
Building Permit Coordinator
(401) 935-9358 (cell)
(401) 438-1499 (office)

More value - More beauty - More peace of mind - Why settle for less?

152 Forbes Street, East Providence, RI 02915 and Dartmouth, MA 02748
RI: 401-438-1499 □ MA: 508-979-8984 □ 800-866-1499 □ email: info@marshallbr.com

www.marshallbr.com

GAF Timberline**HDZ**
High Definition Lifetime Shingles



America's #1-selling shingle just got better — again

Now with GAF Time-Release Algae-Fighting Technology and LayerLock™ Technology, Timberline HDZ® offers everything you can expect from an architectural shingle roof, and more.



Timberline HDZ® Shingles

Benefits:

- **LayerLock™ Technology** — mechanically fuses the common bond between overlapping shingle layers
- **Up to 99.9% nailing accuracy** — the StrikeZone™ nailing area is so easy to hit that a roofer placed 999 out of 1,000 nails correctly in our test¹
- **WindProven™ Limited Wind Warranty** — when installed with the required combination of GAF Accessories, Timberline HDZ® Shingles are eligible for a wind warranty with no maximum wind speed limitation³
- **Dura Grip™** sealant pairs with the microgranule surface of the StrikeZone™ nailing area. Then, an asphalt to-asphalt monolithic bond cures for durability, strength, and exceptional wind uplift performance.
- **25-year StainGuard Plus™ Algae Protection Limited Warranty** against blue-green algae discoloration.² Proprietary GAF Time-Release Algae-Fighting Technology helps protect your shingles from unsightly stains.
- **For the best look** — use TimberTex® Premium Ridge Cap Shingles or TimberCrest® Premium SBS-Modified Ridge Cap Shingles

Colors:



Harvest Blend Colors⁵



Product details:

Product/System Specifics

- Fiberglass asphalt construction
- **Dimensions (approx.):** 13 1/4" x 39 3/8" (337 x 1,000 mm)
- **Exposure:** 5 5/8" (143 mm)
- **Bundles/Square:** 3
- **Pieces/Square:** 64
- **StainGuard Plus™ Algae Protection²** Limited Warranty
- **Hip/Ridge:** TimberTex®; TimberCrest®; Seal-A-Ridge®; Z® Ridge; Ridglass®⁵
- **Starter:** Pro-Start®; QuickStart®; WeatherBlocker™

Applicable Standards & Protocols:

- UL Listed to ANSI/UL 790 Class A
- State of Florida approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018, Type 1
- Meets ASTM D3462⁴
- Miami-Dade County Product Control approved
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- Rated by the CRRC: Can be used to comply with Title 24 Cool Roof requirements (some colors)

¹ Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence (or eligible second owner(s)) owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime Shingles only. See the GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime Shingle and at least 3 qualifying GAF Accessories. See the GAF Roofing System Limited Warranty for complete coverage and restrictions. For installations not eligible for the GAF Roofing System Limited Warranty, see the GAF Shingle & Accessory Limited Warranty. Visit gaf.com/LRS for qualifying GAF products.

² Results based on study conducted by Home Innovation Research Labs, an independent research lab, comparing installation of Timberline HDZ® Shingles to Timberline HDZ® Shingles on a 16-square foot deck using standard 4-nail nailing pattern under controlled laboratory conditions. Actual results may vary.

³ 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions and qualifying products.

⁴ 15-year WindProven™ limited wind warranty on GAF Shingles with LayerLock™ Technology requires the use of GAF Starter Strips, Roof Deck Protection, Ridge Cap Shingles, and Leak Barrier or Attic Ventilation. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the GAF Roofing System Limited Warranty, see the GAF Shingle & Accessory Limited Warranty.

⁵ Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.

⁶ Harvest Blend colors are only available on TimberTex® Ridge Cap Shingles, Seal-A-Ridge® Ridge Cap Shingles, and TimberCrest® Premium SBS-Modified Ridge Cap Shingles.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

We protect what matters most™



INCREASED THERMAL PERFORMANCE WITH JAMES HARDIE

AUGUST 2014

TECHNICAL BULLETIN #2

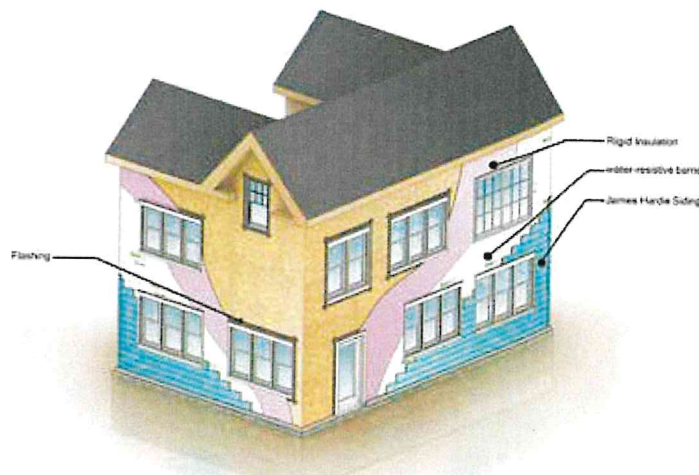


A COMPLETE SOLUTION WITH JAMES HARDIE

Energy efficient home design is increasing in importance and is directly associated with utility costs and comfort. A home's heating and cooling costs can be substantially reduced through correct insulation, air sealing practices, incorporating the correct products and proper installation methods. If your home is as little as 5 to 10 years old, you likely have one of the 46 million under-insulated homes in the U.S., according to the Harvard University School of Public Health. Insulation is one of the lowest cost options for improving the energy efficiency of your home.

Heating and cooling account for 50 to 70% of the energy used in the average American home, according to the Department of Energy. Inadequate insulation and air leakage are leading causes of energy waste in most homes. Rigid foam insulation in conjunction with HardieWrap® weather barrier and James Hardie® siding provides a better solution:

- Better insulation value
- Increased air tightness
- Reduced heat transfer
- Lower energy costs
- More comfortable and healthier home



The house above shows how rigid foam insulation, HardieWrap® weather barrier and James Hardie® siding can eliminate air leakage and increase the whole wall R-value when properly installed, significantly decreasing energy costs.

HOME ENERGY AUDIT

A home energy audit is the first step to assess how much energy your home consumes and to evaluate what measures you can take to make your home more energy efficient. An audit will show you problems that may, when corrected, save you significant amounts of money over time. During the audit, you can:

- Pinpoint where your house is losing energy
- Determine the efficiency of your home's heating and cooling systems
- Find ways to conserve hot water and electricity
- Determine the best approach to make your home more energy efficient

You can perform a simple energy audit yourself, or have a professional energy auditor carry out a more thorough audit.

DO-IT-YOURSELF HOME ENERGY AUDITS

With a simple but diligent walk-through, you can spot many problems in any type of house. When auditing your home, keep a checklist of areas you have inspected and problems you found. This list will help you prioritize your energy efficiency upgrades. The U.S. Department of Energy website can help direct you when doing an energy audit yourself:

http://www.energysavers.gov/your_home/energy_audits/index.cfm/mytopic=11170



JamesHardie

For complete installation information visit
www.HardieInstallation.com

USTB 2 | Version 3 | PAGE 1 of 6

AIR SEALING

Air leakage occurs when air unintentionally and freely enters or exits the home through penetrations or openings throughout the structure. If exhaust vents, electrical outlets, and doors or windows are not sealed properly, the entire home's air tightness will be reduced. Air leakage will also occur between the laps and joints of all siding products if an air barrier is not properly created.

Air sealing is important, not only because drafts are uncomfortable, but also because air leaks carry both moisture and energy. For example, air leaks can carry hot humid outdoor air into your house in the summer, or carry warm indoor air out in the winter.

Most homeowners are aware that air leaks into and out of their houses through small openings around doors and windows and through fireplaces or chimneys, but air can also travel through any of the following locations if not properly sealed:

- Any openings or cracks where two walls meet
- Gaps around electrical outlets, switch boxes, and recessed fixtures
- Behind bath tubs and shower stall units
- Through floor cavities of finished attics
- Plumbing and electrical wiring penetrations

By installing HardieWrap, taping the seams, and flashing the windows you can create an air barrier to prevent air leakage.

Oak Ridge National Laboratory provides great information about air sealing in their Technology Fact Sheet:

<http://www.ornl.gov/sci/roofs+walls/insulation/fact%20sheets/Air%20sealing%20technology%20fact.pdf>

HOW INSULATION WORKS

Heat flows naturally from warmer to cooler spaces. In the winter, this heat flow moves directly from all heated living spaces to the outdoors through ceilings, walls and floors - wherever there is a difference in temperature. In the summer, heat flows from the outdoors to the interior of a house through these same channels. Properly insulating your home will decrease this heat flow by providing an effective resistance to the flow of heat.

Insulation is a material that has the ability to resist temperature change or the transfer of heat and cold. R-value is the measurement to evaluate a material's insulation characteristics. The overall R-value of a home design is the sum of the thermal resistance of all of the components in the assembly. Adding rigid foam insulation to the exterior of the home is a simple method of increasing the overall thermal resistance of the wall assembly beyond that possible with cavity insulations and thereby increasing the overall efficiency of the home.

Oak Ridge National Laboratory provides great information about wall insulation in their Technology Fact Sheet:

<http://www.ornl.gov/sci/roofs+walls/insulation/fact%20sheets/wall%20insulation%20technology.pdf>

ADDING INSULATION TO YOUR HOME

The easiest and most convenient time to add insulation to your home is when you replace the siding. During the re-side you will be able to assess how much insulation you currently have, determine your insulation needs, and add additional insulation as needed, all before the new siding is installed. Many older homes have less insulation than homes built today, but adding insulation to a newer home may also pay for itself within a few years. Properly insulated exterior walls in your house will not only increase comfort but also help you save on heating and cooling costs. Half-inch thick rigid foam insulation has an R-value of R-2 to R-3.5. Foam thicker than a half-inch will yield even higher R-values. Adding ½ inch of rigid foam insulation (R-2 in this example) will increase a 2x6 stud wall from an effective R-15 to an effective R-17. This is an increase of 13% of effective thermal resistance.

Wall Assembly R-Value

	Typical Wall	Wall with 1/2 foam
2 X 4 framing	R - 11	R - 13
2 X 6 framing	R - 15	R - 17



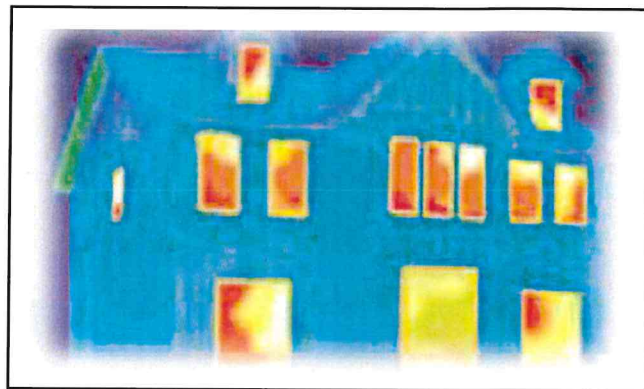
BENEFITS OF USING JAMES HARDIE® SIDING WITH HARDIEWRAP® WEATHER BARRIER AND RIGID FOAM INSULATION:

- Increased thermal performance
- High performance
- Installation ease
- Air infiltration reduction
- Strength and durability
- Comfort and peace of mind

The images below (Copyright © 2009 UJ Robichaud TIMBR Mart) show how effective just a ½ inch of rigid foam insulation is at reducing heat loss versus the same home with OSB sheathing and R-13 batt insulation. Heat loss is indicated on a scale of red, the most heat loss, to purple/blue — minimal heat loss.



House with OSB and R-13 batts



House with OSB and R-13 batts, covered with 1/2" rigid foam insulated sheathing and James Hardie Fiber Cement

NOTE: The leakage of air through all the normal seams and tiny cracks of the exterior walls can account for as much as 30 percent of the heat loss in a typical home. Due to their profile, installation, and physical properties, foam backed vinyl products are not designed to reduce air leakage and therefore may not provide the increase in thermal performance claimed.






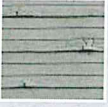




TYPES OF RIGID FOAM INSULATION

There are three main types of rigid foam insulating sheathing currently being used in the industry: Expanded Polystyrene (EPS), Extruded Polystyrene (XPS), and Polyisocyanurate (Polyiso) which each exhibit varying R-values, a wide variation in vapor permeability and drainage characteristics. Building science experts have recognized that the type of rigid foam insulation needs to be selected based on specific climatic variables in conjunction with the specific wall assembly components. Similarly, James Hardie has recognized the need for climate specific siding products with the HardieZone™ System. Refer to <http://www.jameshardie.com/> for your correct HardieZone and see the chart below for general product properties and climate recommendations for rigid foam insulation:

Type	R-Value (inches)	Permeance (perms)	Climate Use	Special Considerations
Expanded Polystyrene (EPS)	3.2 - 4.4	2.0 - 5.0	All Climates, Cold Climates	Interior vapor retarder recommended in cold climates.
Extruded Polystyrene (XPS)	4.6 - 5	1.0	All Climates, Cold Climates	Interior vapor retarder recommended in cold climates. Drainage space recommended in cold climates when there is no interior vapor retarder
Unfaced Polyisocyanurate	6.0	2.8 - 4.5	All Climates	Interior vapor retarder recommended in cold climates.
Foil Faced Polyisocyanurate	6.5	0.0	All Climates, Hot Humid	Drainage space recommended in cold climates when there is no interior vapor retarder.



James Hardie vs. Foam Backed Vinyl

	James Hardie Siding Over Rigid Foam Insulated	Foam Backed Vinyl Siding
Flame Resistance	 James Hardie Siding is non-combustible and approved for fire-rated construction.	 Vinyl siding will melt or burn when exposed to heat or flame.
Fade Resistance	 Factory applied, baked on finish provides up to 30% better fade resistance than competitive products.	 Color can't be changed and is susceptible to fading. Vinyl siding is difficult to match when repairs are necessary.
Weather Resistance	 Resists rotting, warping, cracking, hail and high winds up to 150 MPH.	 Insulated vinyl siding can be damaged by hail, tree limbs and other flying debris.
Air Filtration	 HardieWrap combined with rigid foam creates a continuous air barrier outside of the insulation retaining the insulation value.	 Air penetration behind siding and attached foam compromises advertised insulation value.
Energy Efficiency Tax Credit	 Use of rigid foam insulation qualifies for a tax credit of up to \$1500.	 Insulated vinyl siding does not qualify for any type of tax credit.

**The Existing Home Retrofit Tax Credit (Tax Code Section 25C): Tax credits are available at 30% of the cost, up to a \$1500 limit, for installations of external rigid foam insulation. For insulation to qualify its primary purpose must be to insulate, insulated siding does not qualify.*



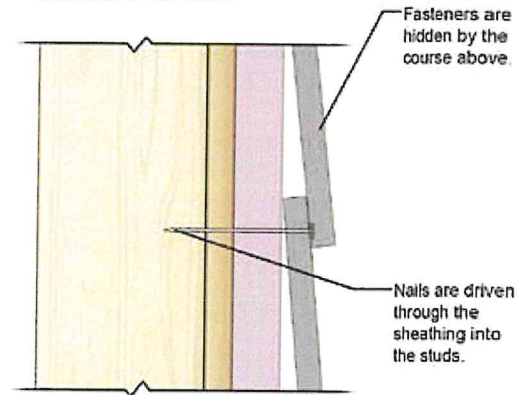
HardiePlank® lap siding is the most popular brand of siding in America and can be found on over 4 million homes. You want the strength, beauty and durability that lasts for years. James Hardie siding enhances and protects homes in all kinds of climates - and now, with the HardieZone™ System, James Hardie provides siding with specific performance attributes relative to the climate where the product is being used. James Hardie now gives you the optimum siding for your project and climate, regardless of the location. HardiePlank lap siding comes with a 30-year nonprorated transferable, limited product warranty - our strongest warranty ever.

GENERAL REQUIREMENTS AND INSTALLATION GUIDELINES:

- All James Hardie product specific installation requirements must be followed, please refer to www.JamesHardie.com for the most up to date Installation Requirements and Best Practice Guide.
- All national, state, and local building code requirements must be followed and where they are more stringent than the James Hardie installation requirements, state and local requirements will take precedence.
- James Hardie siding and trim products can be installed over solid-foam insulation board up to 1-in. thick. Caution should be taken as irregularities and unevenness in framing, sheathing, foam and other wall assembly components, including under driven nails, can telegraph through to the finished siding and trim. These irregularities should be corrected before the siding is installed.
- When reviewing the following details for attaching over foam an important consideration is that the fastener chosen must be adequately encompassed by a wood substrate - the foam will not count as part of the necessary penetration, therefore the length of the chosen fastener must be extended by the thickness of the foam.

FASTENER SELECTION:

When attaching lap siding products over foam, the length of the chosen fastener must be extended in length by the thickness of the foam.



When attaching lap siding products over foam the length of the chosen fastener must be extended by the thickness of the foam to achieve the same required holding power.

Fastener Selection

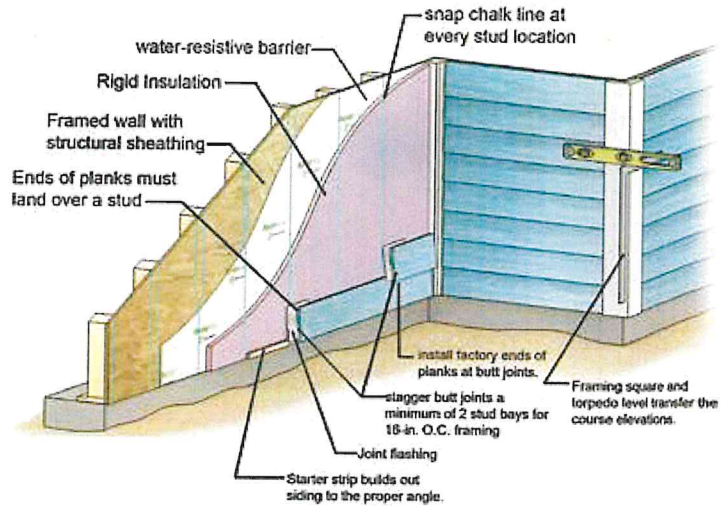
Normal Fastener	Fastener for additional 1/2" of foam
6d Common 2" Long	8d Common 2 1/2" Long
11 ga. 1 1/4" long roofing nail	11 ga. 1 3/4" long roofing nail
8-18 x 1 5/8" x .323" HD ribbed bugle head screw	8-18 x 2 1/8" x .323" HD ribbed bugle head screw

Refer to the appropriate ESR report or other code compliant documentation for proper fastener selection based on specific product, stud spacing, building height, and exposure category.

James Hardie does support the use of its exterior siding products installed over rigid foam insulation, but it does not take responsibility for the entire wall assembly or system. James Hardie expects the designer, contractor, or builder using our components as part of the insulated wall assembly to:

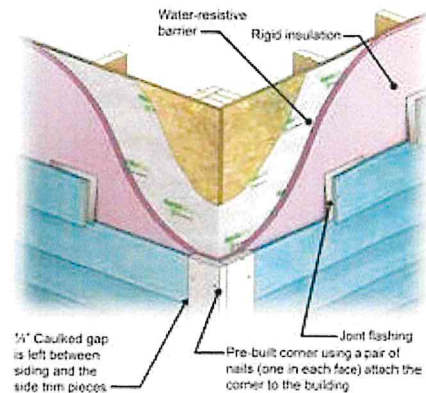
- Adhere to all the installation requirements listed in the relevant product installation instructions.
- Provide adequate details for water management.
- Make the decision about the use and type of rigid foam insulation.
- Understand the interaction between system components and how each of the components in the system interacts.
- Design the building envelope to account for both interior and exterior moisture control.

NOTE: When attaching lap siding products to 1 in. or less of foam, the length of the chosen fastener must be extended by the thickness of the foam to achieve the same required holding power. For guidance on attaching to foam greater than 1 in. refer to Technical Bulletin #19 at www.hardieinstallation.com.



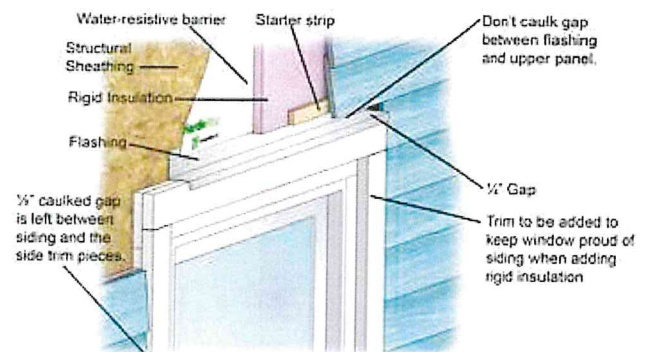
WEATHER BARRIER AND RIGID FOAM:

- When using a weather resistive barrier (WRB) in conjunction with rigid foam installation, the WRB can be installed over the top as shown, or underneath if more convenient.
- Regardless of where the WRB is placed all flashings must be incorporated into the WRB and drainage plane.
- Some rigid foam insulation products are manufactured with tongue and groove or shiplap joints and can be used as the WRB when properly installed and sealed. When using rigid foam insulation as the WRB refer to manufacturers installation instructions.



Trim: Depending upon the reveal around windows, doors, & penetrations, thickness of foam and the type and thickness of trim used there will be different techniques to install the siding and trim to ensure that the foam is completely concealed.

Flashings: The Z flashing above all horizontal trim must be incorporated into the WRB regardless of WRB position. If the foam is being used per manufacturers instructions as the WRB, all flashings must be incorporated into the drainage plane in such a way that allows moisture to drain down and out.



NOTE: It is recommended to layout the rigid foam insulation such that vertical joints do not occur at the corners of window and door openings or over window heads if possible.


IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury.

DESIGN ADVICE: Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.

Additional Installation Information, Warranties, and Warning are available at JamesHardie.com



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