HISTORIC DISTRICT REVIEW BOARD REGULAR MEETING AGENDA

Town Council Chambers Building
765 Lynn Street, Herndon, VA 20170

Wednesday, July 16, 2025 | 7:00 PM

1. **Call to Order**
2. **Approval of Minutes**
   a. June 4, 2025, Historic District Review Board Work Session
   b. June 18, 2025, Historic District Review Board Regular Meeting
3. **Comments**
   a. Comments from the Staff Members
   b. Comments from the Board Members
   c. Comments from Citizens
4. **Public Hearings**
   a. APPLICATION FOR AN ADDITION, HDRB #25-003, to consider an application for a Certificate of Appropriateness for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia
   b. APPLICATION FOR AN ALTERATION TO AN EXISTING STRUCTURE, HDRB #25-004, to consider an application for a Certificate of Appropriateness for alterations to a single-family residential building located at 703 Dranesville Road, Herndon, Virginia
5. **Adjournment**

Historic District Review Board Regular Meeting
Agenda Item 2.a.

Agenda Item: **June 4, 2025, Historic District Review Board Work Session**

Meeting Date: July 16, 2025

Category: Approval of Minutes

Prepared by: Aaron Zoellick, Clerk of Boards and Commissions

Description:
This is a request to approve the June 4, 2025, Historic District Review Board work session minutes.

Background:
N/A

Fiscal Impact:
N/A

Staff Recommendation/Next Steps:
Recommend approval, as presented.

Attachments:
1. 06.04.2025 Historic District Review Board Work Session Minutes

TOWN OF Herndon VIRGINIA

HERNDON HISTORIC DISTRICT REVIEW BOARD
Work Session Minutes
Wednesday, June 4, 2025

1. Call to Order

Chair Blaker-Glass called the June 4, 2025, Historic District Review Board work session to order at 7:00 p.m. in the Town of Herndon Council Chambers Building, 765 Lynn Street, Herndon, Virginia. Board Members in attendance: Tamim Chowdhury, Melody Fetske, Paul LeReche, Vice Chair Lauren Edmondson, and Chair Leslie Blaker-Glass.

Board Members Amy Oleinick and Triston Chase O'Savio were absent.

Staff present during the meeting: Lauri Sigler, Deputy Town Attorney; Bryce Perry, Deputy Director of Community Development; Angelina Jones, Lead Planner; T.J. Williams, Chief Program & Project Manager; and Aaron Zoellick, Clerk of Boards and Commissions.

Chair Blaker-Glass determined there was a quorum of five members present.

2. Public Hearings

a. APPLICATION FOR AN ALTERATION TO AN EXISTING STRUCTURE, HDRB #25-002, to consider an application for a Certificate of Appropriateness for alterations to a civic building located at 777 Lynn Street, Herndon, Virginia.

Chair Blaker-Glass opened the public hearing and called on Ms. Jones for the staff report.

Ms. Jones delivered the staff report and staff presentation dated June 4, 2025, which are on file with the Department of Community Development.

Ms. Jones stated this is an application to change the storefront framing and glass system at the east and west elevations of the Herndon Municipal Center, 777 Lynn Street. Staff is withholding a recommendation pending discussion by the board.

There was discussion among the Board and staff on this item, including: (1) lessons learned from previous designs that informed the proposed design; (2) clarification on the scope of the project; (3) recommendation to go with the thicker,

2 1/2", width of the framing; (4) clarification on the specifications and appearance of the black finish; (5) any potential security implications; and (6) clarification on the banding.

Chair Blaker-Glass recognized the applicant for comment.

The applicant, T.J. Williams, Chief Program & Project Manager for the Town of Herndon, was present and provided brief comments.

There was discussion among the Board, staff, and the applicant on this item, including: (1) insight from the applicant on the reasons for the current proposed design; (2) whether full floor-to-ceiling panels were considered; (3) clarification if "Herndon Municipal Center" will be etched on the proposed glass; (4) clarification on the design and structural purpose of the banding; (5) concern about the trendiness of the black frame; (6) clarification if the hardware design will be updated; (7) clarification if the windows are UV-rated; (8) request to see a physical sample of the proposed framing options; and (9) a preference for the anodized steel look for the downtown.

3. Comments

a. Comments from the Staff Members

Ms. Jones stated that there will be one case for the July Historic District Review Board. A training piece will also be offered during the work session.

b. Comments from the Board Members

No comments were offered.

4. Adjournment

There being no further business, and without objection, the June 4, 2025, Historic District Review Board work session adjourned at 7:36 p.m.

Historic District Review Board Regular Meeting
Agenda Item 2.b.

Agenda Item: **June 18, 2025, Historic District Review Board Regular Meeting**

Meeting Date: July 16, 2025

Category: Approval of Minutes

Prepared by: Aaron Zoellick, Clerk of Boards and Commissions

Description:
This is a request to approve the June 18, 2025, Historic District Review Board regular meeting minutes.

Background:
N/A

Fiscal Impact:
N/A

Staff Recommendation/Next Steps:
Recommend approval, as presented.

Attachments:
1. 06.18.2024 Historic District Review Board Regular Meeting Minutes

TOWN OF Herndon VIRGINIA

HERNDON HISTORIC DISTRICT REVIEW BOARD
Regular Meeting Minutes
Wednesday, June 18, 2025

1. Call to Order

Vice Chair Edmondson called the June 18, 2025, Historic District Review Board regular meeting to order at 7:04 p.m. in the Town of Herndon Council Chambers Building, 765 Lynn Street, Herndon, Virginia. Board Members in attendance: Melody Fetske, Paul LeReche, Amy Oleinick, Tristan Chase O'Savio, Vice Chair Lauren Edmondson.

Board Member Tamim Chowdhury and Chair Leslie Blaker-Glass were absent.

Staff present during the meeting: Scott Robinson, Acting Deputy Town Manager; Lauri Sigler, Deputy Town Attorney; Angelina Jones, Lead Planner; T.J. Williams, Chief Program & Project Manager; and Aaron Zoellick, Clerk of Boards and Commissions.

Vice Chair Edmondson determined there was a quorum of five members present.

2. Approval of Minutes

a. April 2, 2025, Historic District Review Board Work Session

b. April 16, 2025, Historic District Review Board Regular Meeting

Board Member Fetske motioned to approve the minutes for the April 2, 2025, Historic District Review Board work session, and the April 16, 2025, Historic District Review Board regular meeting. Motion seconded by Board Member LeReche. The question was called on the motion, which was carried by a 5 - 0 roll call vote. Board Members Fetske, LeReche, Oleinick, O'Savio, and Vice Chair Edmondson voted "Aye."

3. Comments

a. Comments from the Staff Members

Ms. Jones stated there are two applications scheduled for the July HDRB meeting. The planned training for the July HDRB work session will be postponed to August.

b. Comments from the Board Members

No comments were offered.

c. Comments from Citizens

No comments were offered.

4. <u>Public Hearings</u>

Certifications of Publication from the Editor of the Fairfax County Times Newspapers were filed, showing that notices of the following public hearing items were duly advertised in the May 30 and June 6, 2025, issues.

a. APPLICATION FOR AN ALTERATION TO AN EXISTING STRUCTURE, HDRB #25-002, to consider an application for a Certificate of Appropriateness for alterations to a civic building located at 777 Lynn Street, Herndon, Virginia.

Vice Chair Edmondson opened the public hearing and called on Ms. Jones for the staff report.

Ms. Jones delivered the staff report and presentation dated June 18, 2025, which are on file with the Department of Community Development. Ms. Jones stated this is an application to consider a Certificate of Appropriateness for alterations to a civic building located at 777 Lynn Street, Herndon, Virginia. Staff recommends approval of the application in accordance with the conditioned draft resolution.

There was discussion among the Board Members and staff regarding this application, including: (1) preference for the 6" versus 4" framing; (2) preference for the color of the framing materials and hardware; (3) concern about someone walking into the glass without adhesive stickers on the window; (4) how the existing glass is being supported; and (5) how a darker color framing will appear at night.

Vice Chair Edmondson invited the applicant to provide comments.

The applicant, T.J. Williams, Chief Program & Project Manager for the Town of Herndon, was present and provided brief comments.

There was discussion among the Board Members and the applicant regarding this application, including: (1) the durability of anodized versus powder-coated materials.

Ms. Jones recommended an amendment to condition "b" of the proposed resolution to specify the use of 6" framing materials.

Vice Chair Edmondson closed the public hearing and moved to the board level for discussion and possible action.

There was discussion among the Board Members and staff regarding this application, including: (1) the effect of the black versus clear anodized materials; (2) concerns about black materials not matching the existing window framing; (3) whether the applicant or staff has taken material samples and held them up to the brick; (4) whether there are other chrome, clear anodized materials that are present in the lobby; (5) existing black and chrome accents that exist in the exterior of the building; and (6) prominent features of the building.

Board Member Fetske motioned to approve HDRB #25-001 with the addition to condition b that the framing system shall be 6" deep and anodized black. Motion seconded by Board Member Oleinick. The question was called on the motion, which was carried by a 5 - 0 roll call vote. Board Members Fetske, LeReche, Oleinick, O'Savio, and Vice Chair Edmondson voted "Aye."

5. Adjournment

There being no further business, and without objection, the June 18, 2025, Historic District Review Board regular meeting adjourned at 7:30 p.m.

Historic District Review Board
Regular Meeting
Agenda Item 4.a.

Agenda Item: **APPLICATION FOR AN ADDITION, HDRB #25-003, to consider an application for a Certificate of Appropriateness for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia**

Meeting Date: July 16, 2025

Category: Public Hearings

Prepared by: Angelina Jones, Lead Planner / Design and Development

Description:
This project proposes a one-story rear addition that measures approximately 68.25 square feet in area, and will serve to extend an existing 2011 addition to square the northeast corner of the house. This addition will front Vine Street and sit about 21.2 feet from the property line, which is consistent with a setback reduction previously granted by the HDRB. The applicant also proposes adding a shed roof porch at the southeast corner of the house, which will cover an area of approximately 116 square feet. This will be adjacent to a proposed prefabricated, aluminum-covered pergola, which covers an area of 247 square feet. The proposed addition is consistent with the design and features of the existing 2011 addition. For additional information, please see the July 2, 2025, HDRB work session staff report.

Background:
A two-story, single-family detached house sits on the property at 706 Main Drive at the corner of Main Drive and Vine Street. The property also has a detached garage located at the rear of the house along Vine Street. Both the dwelling and the detached garage are contributing resources to the Town of Herndon Historic District. As this is a corner property, it has two front setbacks. The house features a jerkinhead or clipped gable roof, three shed roof dormers on the façade, a decorative door surround, and a mix of 9-over-9 and 6-over-6 double-hung sash windows. The primary cladding is yellow brick with lap siding on the dormers, and the roof is covered with asphalt shingles. There is a siding-clad, two-story addition at the rear of the house that was added in 2011. For additional information, please see the July 2, 2025, HDRB work session staff report.

Fiscal Impact:
N/A

Staff Recommendation/Next Steps:
Staff recommend approval of the application in accordance with the conditioned draft

resolution.

Attachments:

1. Staff Memo
2. Resolution (Proposed)
3. Additional Materials
4. July 2, 2025 Staff Report
5. Legal Ad

TOWN OF Herndon VIRGINIA

MEMORANDUM

To: **Chair Blaker-Glass and Members of the Historic District Review Board**

From: **Angelina R. Jones, Lead Planner / Design & Development**

Date: **July 16, 2025**

Subject: APPLICATION FOR AN ADDITION, HDRB #25-003, to consider an application for a Certificate of Appropriateness for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia.

Description:
This project proposes the following modifications:

- One-story rear addition that measures approximately 68.25 square feet in area
- Cantilevered canopy over the rear entrance of an existing 2011 addition
- Shed roof porch at the southeast corner of the house covering an area of approximately 116 square feet
- Prefabricated, aluminum covered pergola covering an area of 247 square feet

The one-story rear addition will serve to extend the existing 2011 addition to square the northeast corner of the house. This addition will front Vine Street and sit about 21.2 feet from the property line, which is consistent with a setback reduction previously granted by the Historic District Review Board (HDRB). The proposed addition is compatible with the design and features of the existing 2011 addition. For additional information, please see the July 2, 2025, HDRB work session staff report.

Background: A two-story, single-family detached house sits on the property at 706 Main Drive at the corner of Main Drive and Vine Street. The property also has a detached garage located at the rear of the house along Vine Street. Both the dwelling and the detached garage are contributing resources to the Town of Herndon Historic District (see “Additional Materials” attachment for the architectural survey information). As this is a corner property, it has two front setbacks. The house features a jerkinhead or clipped gable roof, three shed roof dormers on the façade, a decorative door surround, and a mix of 9- over-9 and 6-over-6 double-hung sash windows. The primary cladding is yellow brick with lap siding on the dormers, and the roof is covered with asphalt shingles. There is a siding-clad, two-story addition at the rear of the house that was added in 2011.

The applicant received a setback reduction from the HDRB for the secondary front yard that changed the setback from 35 feet to 21.2 feet from the Vine Street right-of-way (HDRB #23-018). The applicant also applied for a lot consolidation that was finalized

earlier this year to allow for the proposed modifications (PLT #24-02). Note that the modifications will need to comply with the approved Building Location Survey, which is currently in process. The parking pad and any associated landscaping will need to adhere to the applicable zoning ordinance regulations and any design standards tied to the required right-of-way permit. For additional information, please see the July 2, 2025, HDRB work session staff report.

Staff provided the following comments for discussion at the July 2, 2025, work session:

- The overall scale and massing of the proposed addition is appropriate in relation to the contributing resources on the property and that the proposed modifications will not negatively impact the integrity of the Historic District Overlay more broadly.
- The proposed addition extends the first-floor plane of the existing addition on the elevation facing Vine Street (north). While this change will be visible from the right-of-way, the massing and continuity with the 2011 addition minimize its visual impact.
- Painting the previously unpainted masonry of the house or of the detached garage, both of which are contributing to the historic district, is not an appropriate change. Brick, including its color and texture, is an important feature typical of the Colonial Revival architectural style. Furthermore, painting historically unpainted masonry of contributing resources contradicts best practice as described in Chapter 5 of the *Historic District Overlay Guidelines*. Painting brick is an irreversible action. Once applied, removal of any type of paint from the building will cause damage to the brick substrate.
- Matching the red-brown color of the existing roofing material rather than using black is recommended, as this color complements the yellow of the masonry, which constitutes the majority of the building's cladding on the historic portion of the house.
- The addition of a visual landscaping buffer to screen the additional parking pad proposed along Vine Street is recommended. This is consistent with guidance for site features described in Chapter 5 of the *Historic District Overlay Guidelines* (updated 2020). Note that the parking pad and associated landscaping will need to adhere to all applicable zoning ordinance regulations and any design standards tied to the required right-of-way permit.
- Staff requested information from the applicant regarding the following: window lite division and muntin/grille placement, whether the siding on the façade (west elevation) is proposed for replacement, and details as to size and material of proposed parking pad and the size of the concrete pad that would sit under the proposed aluminum pergola.

Work Session Discussion:
At the July 2, 2025, work session the HDRB asked for clarification on whether there will be gutters and downspouts included in the final design for the addition. Although the

applicant did not have an immediate answer to this question during the meeting, they followed up after the meeting with staff in writing (see summary below). The board engaged in a discussion with the applicant regarding the property owner's goals for painting the brick of the house and detached garage and the applicant explained that their client wanted the house to have a more contemporary color palette. The board agreed with staff that painting the historic brick on the house and garage would not be appropriate and asked staff for further information regarding best practices. Staff explained that painting the brick would negatively impact the integrity of the building as this is a character defining feature. Irreversibly altering this feature would particularly negatively impact the aspect of integrity related to both buildings' design. The HDRB recommended that the applicant explore options to change the color of the roof, siding, window sashes, and doors to update the color palette of the house and garage. The applicant stated that they are applying to change the siding on the façade (west elevation) as well as the rear addition to Hardie plank. The applicant also provided details regarding the dimensions of the proposed parking pad.

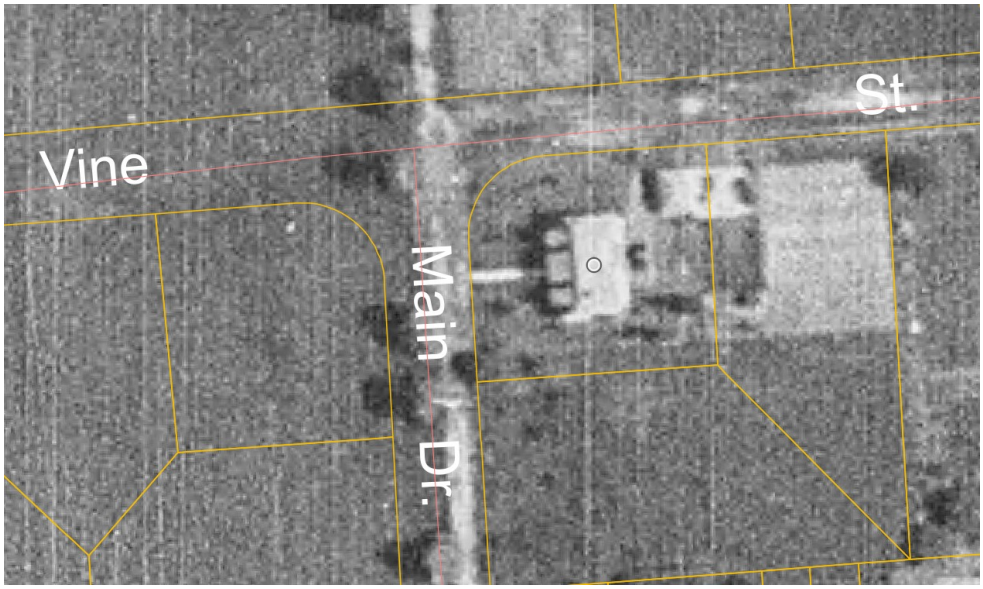
Updates since the Work Session:
Staff followed up with the applicant's architect via email on July 3, 2025, to summarize outstanding information needed based on the comments from the HDRB and staff at the work session. The applicant responded with revised drawings (see "Additional Materials" attachment) and the following information:

- The design for the rear addition includes the installation of new gutters and downspouts, which will match the existing K-channel gutters and ribbed rectangular downspouts currently on the house.
- The applicant proposes replacing all existing vinyl siding with white Hardie plank.
- The applicant proposes to paint the previously unpainted brick portions of the house and detached garage, both contributing resources to the historic district. Staff previously requested technical information for the type of paint proposed, however, the applicant has not yet included this information in the submitted materials.
- The design calls for expanding the existing concrete parking pad with an 8'-6" by 20'-2.5" concrete pad installed at grade. The applicant has added a landscape buffer west of the parking pad, screening it from the architectural front of the house. Note that vegetation within the sight distance triangle may not exceed 3' in height and that vegetation should be selected that will not grow above this height even when it is not actively maintained (see Section Sec. 78-21(e)(3) of the Town of Herndon Code of Ordinances for details).
- The exact size and location of the proposed parking pad detailed above is still in question. Staff are working through these details with the applicant as part of the ongoing Building Location Survey process. Ultimately, the concrete pad and associated landscaping will need to adhere to applicable zoning ordinance regulations and any design standards tied to the required right-of-way permit. Note that paving within the historic district is exempt from HDRB review.

- The proposed window mullions will match the existing windows in the 6-over-6 configuration. Note that the *Historic District Guidelines* specify that simulated divided lite windows in the district should feature dimensional muntins or grilles on the exterior of the glass.

Staff request material details in the final plan set about the proposed cantilevered canopy to be added to the existing rear addition. Note that the proposal must conform to requirements for appropriate materials as defined in the *Historic District Guidelines*. Staff also request that the drawings specify that the additional 6-over-6 windows will have dimensional muntins or grilles on the exterior of the glass.

Staff have verified that the dormers on the façade date to the period of significance and therefore continue to support differentiating between the siding on the façade and the siding on the rear additions (see image below). This can be done through the use of Hardie plank lap siding on the façade that matches the design, profile, and dimensions of the existing siding and a second Hardie plank siding with a complementary design for use on the rear addition.



1937 aerial photograph showing dormers on the façade (west elevation) of the house at 706 Main Drive. Source: Fairfax County Virginia Historical Imagery Viewer (fairfaxcountygis.maps.arcgis.com).

Furthermore, staff continue to recommend that the unpainted brick remain unpainted, as this is a character defining feature of the house and garage. Painting the brick will diminish the integrity of this resource, which negatively impacts the integrity of the historic district overall. As noted in the July 2, 2025, staff report painting brick that was historically unpainted goes against best practice as defined in Chapter 5 of the *Historic District Overlay Guidelines* (updated 2020). It also runs counter to the *Secretary of the*

Interior's Standards and Guidelines for Rehabilitation, which state that historic character and associated distinctive materials should be maintained during rehabilitation of historic properties. Painting brick is an irreversible action. Any type of paint that is applied to the brick will cause damage to the brick substrate if removed.

A resolution has been drafted with a conditioned approval for leaving the historic brick of the house and garage unpainted, differentiating between the siding on the circa 1927 portion of the house and the rear addition, using windows in the addition that feature dimensional muntins or grilles on the exterior of the glass, and requiring the applicant to submit information for the cantilevered canopy, including proposed materials. The resolution includes allowances for staff to verify compliance with these conditions prior to issuance of the building permit.

Staff Recommendation/Next Steps:
Staff recommend approval of the application in accordance with the conditioned draft resolution.

TOWN OF HERNDON, VIRGINIA
HISTORIC DISTRICT REVIEW BOARD

RESOLUTION

JULY 16, 2025

Resolution- **to approve HDRB #25-003 for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia. The subject property is further identified as Fairfax County Tax Map 0162 04 0030B.**

1. The Historic District Review Board approves HDRB #25-003, for a rear addition to the single-family residential building, Herndon, Virginia, in substantial conformance with the information shown in the case materials reviewed by the HDRB at the July 16, 2025, public hearing with the following conditions:

    a) The historic yellow brick of the primary dwelling and the detached garage shall remain unpainted.

    b) The replacement siding on the façade (west elevation) of the house shall match the existing in design and profile. The siding on the rear addition shall be differentiated from the siding on the façade in design, subject to staff approval.

    c) The windows shall have dimensional muntins or grilles on the exterior of the glass.

    d) The applicant shall submit information for the cantilevered canopy for staff review to ensure that the design and materials are in compliance with the *Historic District Overlay Guidelines*.

    e) The applicant shall provide updated application materials to staff for staff approval, to verify compliance with the above conditions, and to add to the case record prior to issuance of the building permit.

    f) The parking pad and associated landscaping shall adhere to applicable zoning ordinance regulations and any design standards tied to the required right-of-way permit.

    g) The modifications shall comply with the approved Building Location Survey.

MW/ARCHITECTS
RESIDENTIAL | COMMERCIAL | FORENSIC

Town of Herndon
Ms. Angelina Jones
Department of Community Development
777 Lynn Street
Herndon, VA 20170

Re: 706 Main Drive Application for the Historic District Review Board

Dear Board Members,

Please accept this letter as part of the formal request to add an addition to the back of the existing structure at 706 Main Drive. The addition is a roofed single-story space that squares up the back left corner of the house. In addition to the enclosed addition, we will be adding a single slope porch roof off the back right of the property that leads to Pergola.

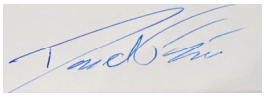
The addition at the back left of the residence is 6'-6" deep x 10'-6" wide. This addition allows for a larger kitchen and an added mud room. The porch roof we will be adding will be 6'- 3" x 18'- 6" and the pergola that it leads to will be a 13'-0" x 19'-0" Pergola kit from "Hansø" Home

The finished materials of the addition will be traditional materials currently used within the HPRB district. The proposed roofing will consist of "Certainteed" Landmark TL Moire Black Architectural shingle. All exterior trim will be "HARDI" 5/4"x4" painted white trim around doors, windows and corners. The window in the kitchen will be a "Pella" Reserve Traditional Double Hung Window. The sliding glass door that leads to the kitchen is a "Pella" Reserve Traditional Sliding Patio Door. The hinged door that leads to the mud room will be a "Pella" Lifestyle Series In-swing Patio Door. All siding on the exterior of the home will be "Hardi" white 4" plank smooth clapboard siding. We are proposing to paint the existing brick exterior white to match the "Hardi" plank used for the addition. Exterior lighting fixtures to be "Kichler" outdoor wall mounted lantern light. The two kitchen skylights are to be "Velux" FS. fixed skylights, and the back yard pergola is to be "Hansø" Aluminum Pergola kit dark grey.

We are confident that you will find this addition will complement the structure at 706 Main Drive and will add to the current aesthetics and value of the neighborhood. We would like to request that the Heritage Preservation Review Board review this application and approve this addition.

Please feel free to contact me at 571-430-0227 if there are any questions or if there might be an item that may be omitted from this application.

Sincerely,



David Fazio

MW Architects
mwarchitects.com / info@mwarchitects.com / (703) 977-9461 / 761C Monroe St. Suite 201, Herndon, VA 20170

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Town of Herndon
Ms. Angelina Jones
Department of Community Development
777 Lynn Street
Herndon, VA 20170

Re: 706 Main Drive Property Photos and Neighboring Historic homes

Front of house:

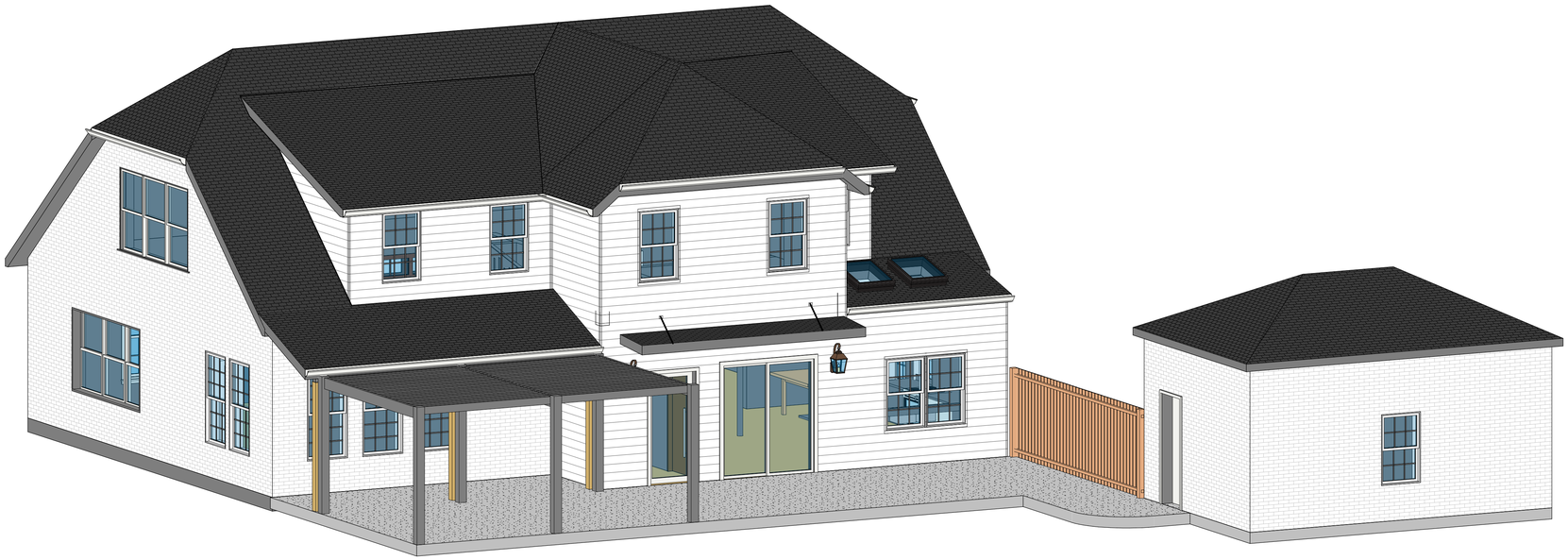
Left Side Elevation:

Right Side Elevation:

Rear Elevation:

Arial View W./ Addition Represented in White:

Neighboring Historic Property (920 Vine St, Herndon, VA 20170):



SCOPE OF WORK & CODE INFORMATION

CONTACT

SHEET LIST

Sheet Number	Sheet Name
A1.0	Floor Plan
A2.0	Back Elevation
A2.1	Left and Right Elevations

ABBREVIATIONS

ABOVE FINISH FLOOR	AFF	EACH	EA	INTERIOR	INT	PLATE	PL	VERTICAL	VERT
ACOUSTIC	ACST	EAST	E			PLUMBING	PLMB	VESTIBULE	VEST
ADJUSTABLE	ADJ	ELECTRIC, ELECTRICAL	ELEC	JANITOR'S CLOSET	JC	PLYWOOD	PLYWD	VINYL COMPOSITE TILE	VCT
AIR CONDITIONING	A/C	ELEVATION	EL	JOINT	JT	POLYVINYL CHLORIDE	PVC	VOLTS	V
AIR HANDLING	AH	ELEVATOR	ELEV	JOIST	JST	POUND	LB		
AIR HANDLING UNIT	AHU	EMERGENCY POWER	EM	JUNCTION BOX	JB	POUNDS PER SQUARE INCH	PSI	WALLBOARD	WB
ALTERNATE	ALT	EMPTY CONDUIT	EC			PREFABRICATED	PREFAB	WELDED WIRE FABRIC	WWF
ALTERNATE CURRENT	AC	ENGINEER	ENGR	LAMINATED	LAM	PREFINISHED	PREFIN	WIDTH	W
ALUMINUM	AL	ELECTRIC WATER COOLER	EWC	LAVATORY	LAV	PRELIMINARY	PRELIM	WINDOW	WDW
AMPERES	AMP	EXHAUST	EXM	LEFT HAND	LH			WITH	W/
ANCHOR BOLT	AB	EXISTING	EX	LENGTH	L	QUARRY TILE	QT	WITH IN	W/ IN
ARCHITECT	ARCH	EXPANSION	EXP	LIBRARY	LIB			WITHOUT	W/O
AT	@	EXPANSION JOINT	EXP JT	LINEAR FEET	LF	RADIUS	RAD, R	WOOD	WD
AVERAGE	AVG	EXTERIOR	EXT	LONG LEG HORIZONTAL	LLH	REFRIGERATOR	REF		
				LONG LEG VERTICAL	LLV	REINFORCING	REINF	YARD	YD
BEAM	BM	FAHRENHEIT	F			REQUIRED	REQD		
BOARD	BD	FEET PER MINUTE	FPM	MAINTENANCE	MAINT	RESILIENT	RES		
		FEET, FOOT	FT	MANUFACTURER	MFR	RETURN AIR	RA		
CABINET	CAB	FINISH	FIN	MASONRY	MAS	REVISION	REV		
CATALOG	CAT	FIRE EXTINGUISHER CAB.	FEC	MASONRY OPENING	MO	RIGHT HAND	RH		
CEILING	CLG	FLOOR	FL	MAXIMUM	MAX	ROOM	RM		
CENTERLINE	CL	FLUORESCENT	FLOUR	MECHANICAL	MECH	ROUGH OPENING	RO		
CERAMIC TILE	CT	FIRE RATED	FR	MEDIUM	MED				
CLOSET	CLO	FOUNDATION	FNDN	MEZZANINE	MEZZ	SCHEDULE	SCHD		
COLUMN	COL	GAUGE	GA	MINIMUM	MIN	SECTION	SECT		
COMPANY	CO	GALLON	GAL	MISCELLANEOUS	MISC	SERVICE SINK	SS		
CONCRETE	CONC	GALLONS PER MINUTE	GPM	MOUNTED	MTD	SIMILAR	SIM		
CONCRETE MASONRY UNITS	CMU	GALVANIZED	GALV	MULLION	MUL	SOUND TRANSMISSION	STM		
CONFERENCE	CONF	GENERAL CONTRACTOR	GC			SPECIFICATION	SPEC		
CONTINUOUS	CONT	GROUNDED FAULT INTERUPT.	GFI	NOT IN CONTRACT	NIC	SQUARE	SQ		
CONTROL JOINT	CJ	GYPSUM	GYP	NOT TO SCALE	NTS	STANDARD	STD		
COORDINATE	COORD	GYPSUM WALLBORD	GWB	NUMBER	#, NO	STAND PIPE	ST		
CORRIDOR	CORR					STAINLESS STEEL	SS		
CUBIC FEET	CF	HANDICAPPED	HDCP	OFFICE	OFF	STATION	STA		
CUBIC FEET PER MINUTE	CFM	HARDWARE	HDW	ON CENTER	OC	STEEL	STL		
		HARDWOOD	HDWD	OPENING	OPNG	STORAGE	STOR		
DEDICATED	DED	HEIGHT	HGT, H	OPPSITE	OPP	STRUCTURAL	STRUCT		
DEPARTMENT	DEPT	HERTZ	HZ	ORIENTED STRAND BOARD	O.S.B.	SUSPENDED CEILING	SUSP		
DEPTH	D	HOLLOW METAL	HM	OUNCE	OZ				
DETAIL	DET	HORIZONTAL	HORIZ	OVERALL	OA	TELEPHONE	TEL		
DIAGONAL	DIAG	HORSE POWER	HP	OVERHEAD	OH	THICK OR THICKNESS	THK		
DIAMETER	DIA	HOT WATER HEATER	HWH	PAINTED	PTD	THRESHOLD	THRSLD		
DIMENSION	DIM	HOUR	HR	PANEL	PNL	TILE	T		
DISHWASHER	DW			PARTITION	PTM	TO BE SELECTED	T.B.S.		
DOOR	DR	INCH	IN	PERPENDICULAR	PERP	TONGE OR GROOVE	T & G		
DOWN	DN	INFORMATION	INFO	PERSONAL COMPUTER	PC	TOP	T		
DRAWING	DWG	INSIDE DIAMETER	ID	PHASE	PH	TOP OF	T.O.		

MATERIAL SYMBOLS

EARTH

CONCRETE

STEEL

BRICK

FINISHED WOOD

CONCRETE MASONRY UNIT

STONE VENEER

GYPSUM OR PLASTER SHEATHING

ROUGH LUMBER

BLOCKING

GRAPHIC SYMBOLS

1 / A101 — SIM — INTERIOR ELEVATION SHEET #

DETAIL ENLARGEMENT SHEET #

Room name / 101 / 150 SF — ROOM NAME & SQ. FT.

1 / A101 — SIM — SECTION SHEET #

DOOR TYPE

1 / A101 — SIM — EXTERIOR ELEVATION SHEET #

1t — WINDOW TYPE

1 — REVISION #

1 / A101 — SIM — DETAIL ENLARGEMENT SHEET #

T — TEMPERED GLAZING

4 — ELECTRICAL FIXTURE #

PARTITION TYPE

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Kelley Addition

706 Main Dr.
Herndon, VA 20170

PROJECT NUMBER:	23.155
DATE:	12/22/2023
DRAWN BY:	DF
CHECKED BY:	MSW

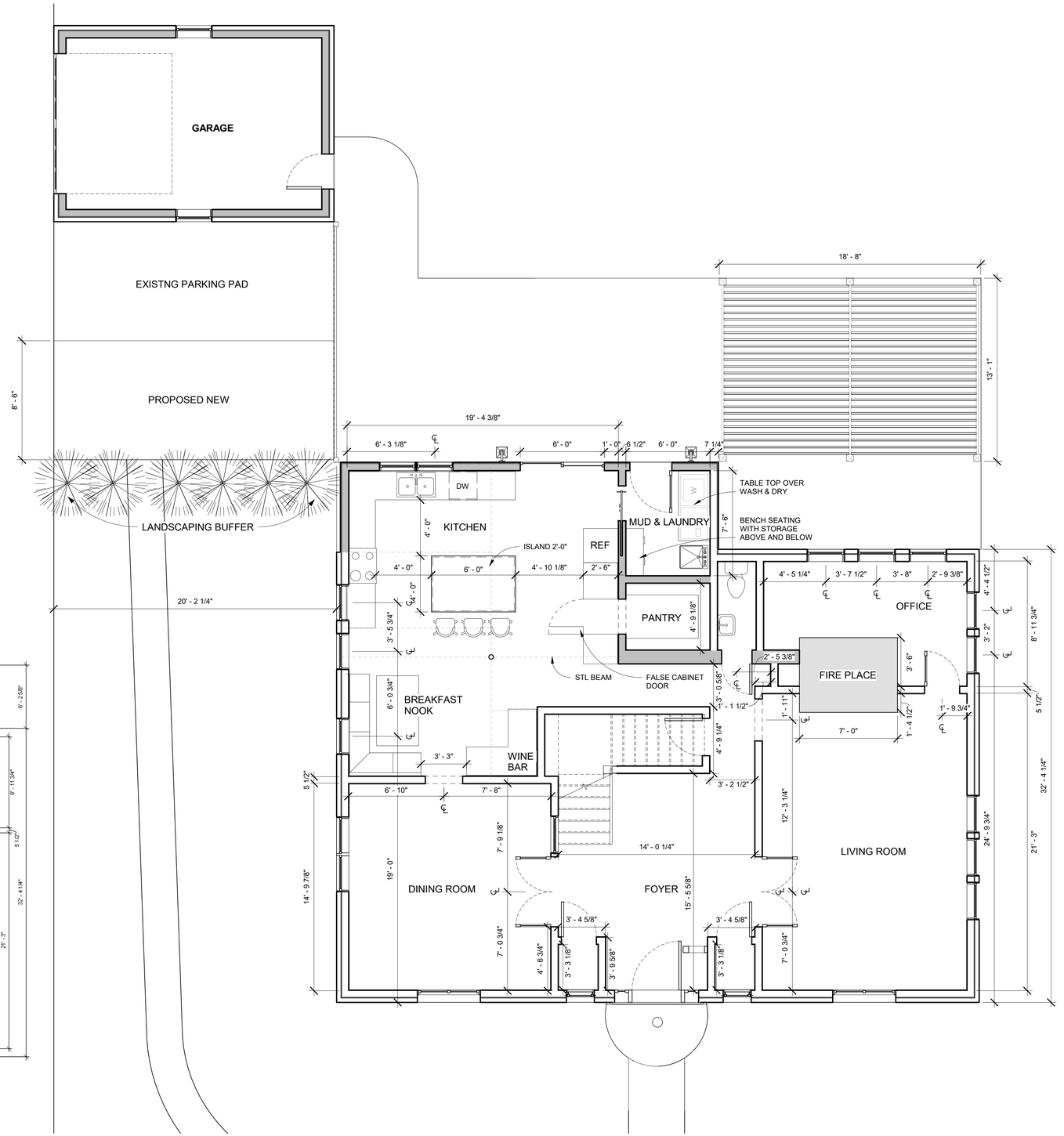
REVISIONS:

Review Set:	
Permit Set:	

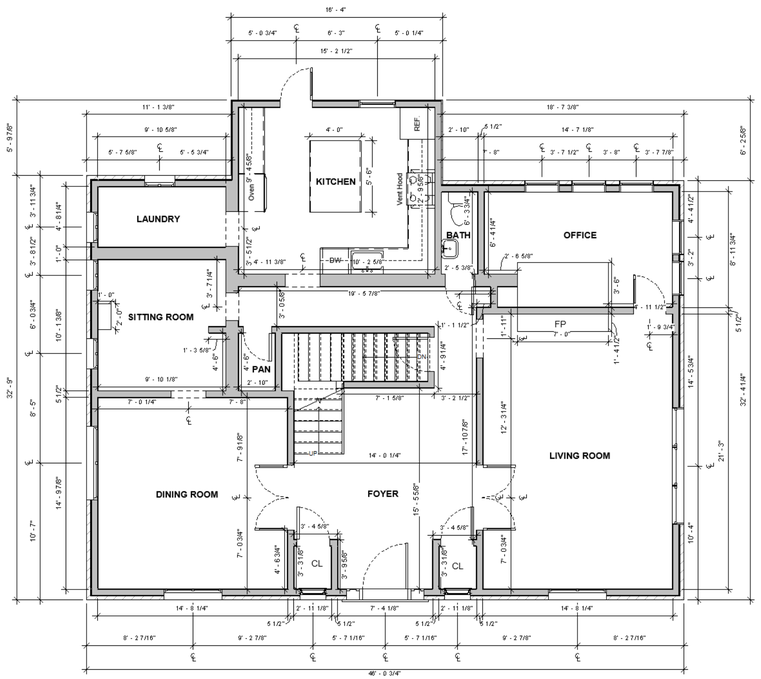
SEAL:

SCALE:	12" = 1'-0"
SHEET TITLE:	**Cover Sheet**
SHEET NUMBER:	**CS**

Updated 7/7/2025



1 1st Floor Plan Porch 1
1/4" = 1'-0"



EXISTING FLOOR PLAN (N.T.S)

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Kelley Residence

706 Main Dr.
Herndon, VA 20170

PROJECT NUMBER:	23.155
DATE:	07/02/2025
DRAWN BY:	AN & DF
CHECKED BY:	MSW

REVISIONS:

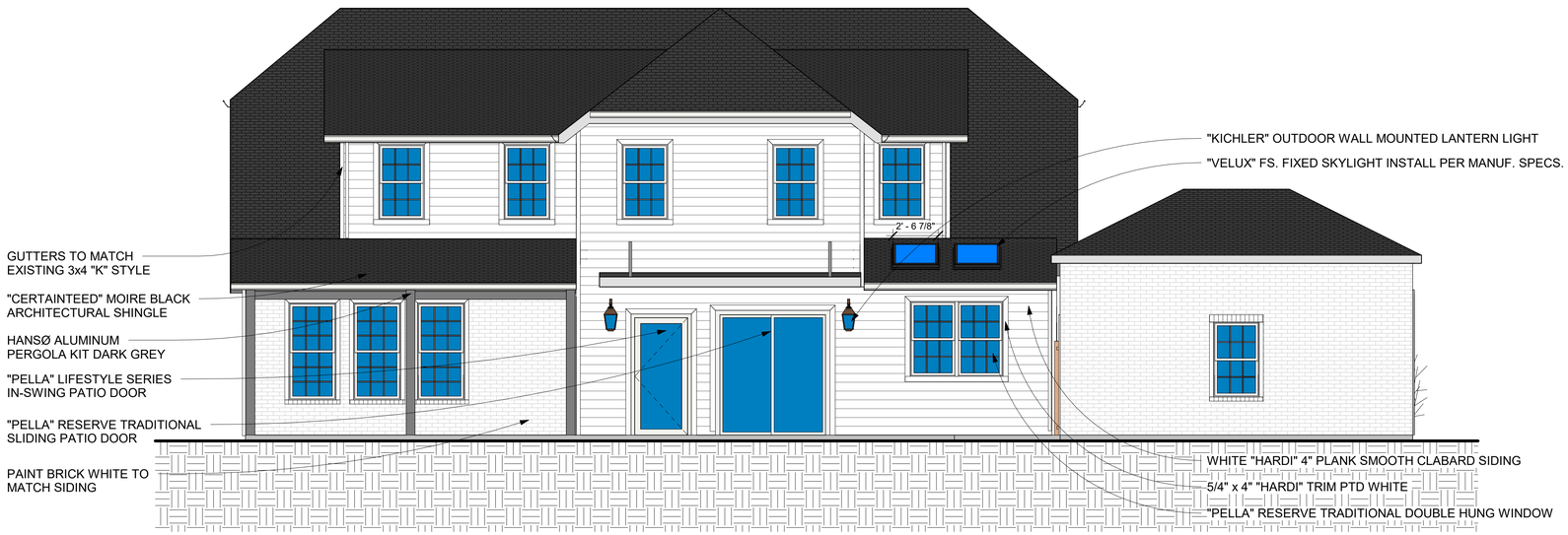
SEAL:

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

SHEET TITLE: **Floor Plan**

SHEET NUMBER: **A1.0**

1 Rear Elevation Opt. OLD
1/8" = 1'-0"



3 Rear Elevation Proposed
1/4" = 1'-0"

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Kelley Residence
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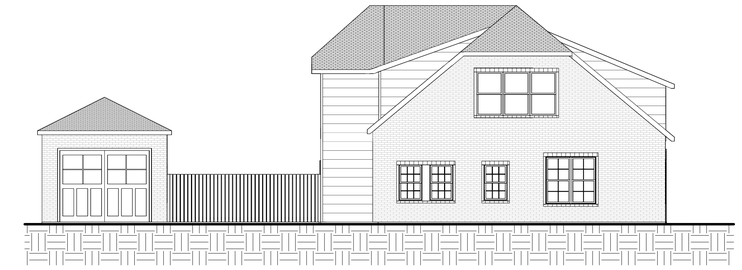
Herndon, VA 20170

PROJECT NUMBER:	23.155
DATE:	07/02/2025
DRAWN BY:	AN & DF
CHECKED BY:	MSW

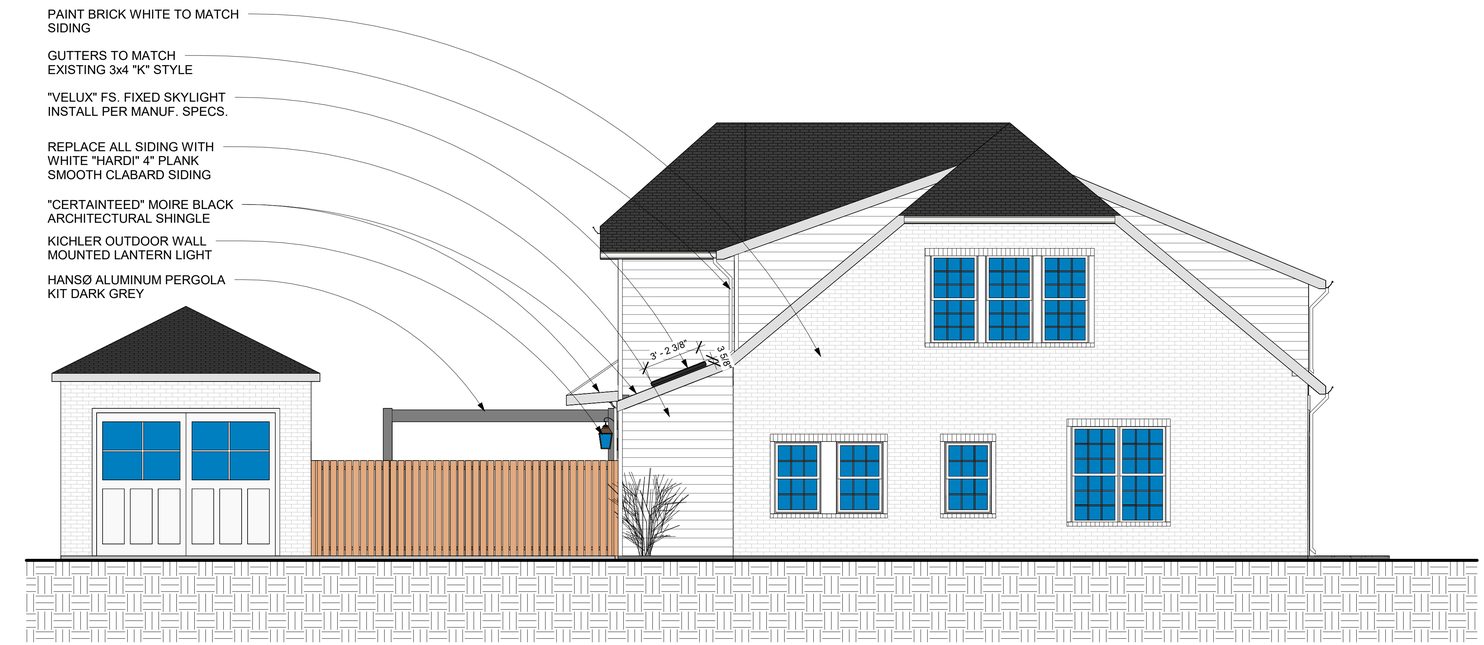
REVISIONS:

SEAL:

SCALE:	As indicated
SHEET TITLE:	**Back Elevation**
SHEET NUMBER:	**A2.0**



3 Left Elevation Existing
1/8" = 1'-0"



5 Left Elevation Proposed Full - Porch 1
1/4" = 1'-0"

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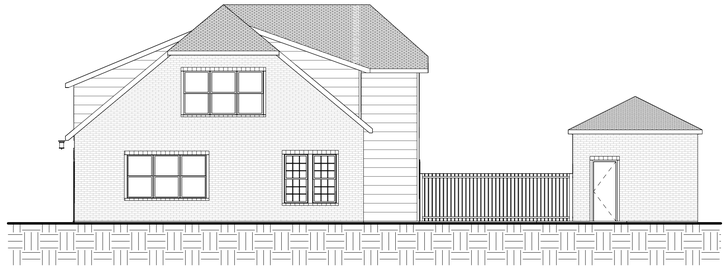
Kelley Residence
706 Main Dr.
Herndon, VA 20170

PROJECT NUMBER:	23.155
DATE:	07/02/2025
DRAWN BY:	AN & DF
CHECKED BY:	MSW

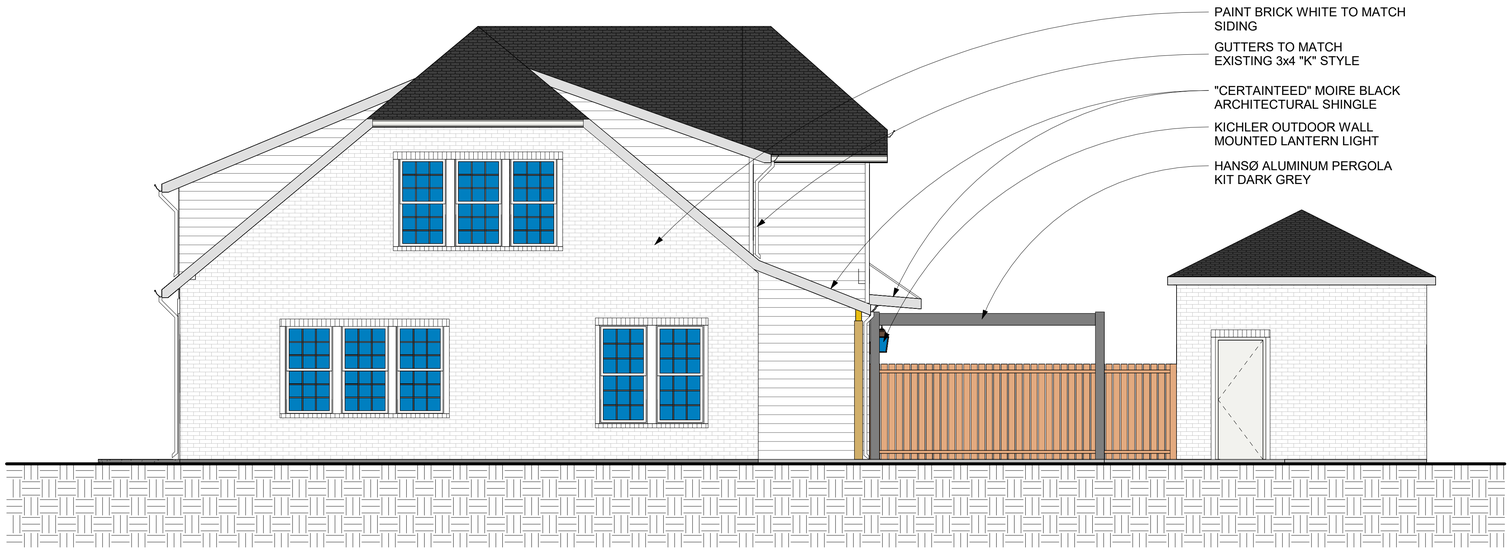
REVISIONS:

SEAL:

SCALE:	As indicated
SHEET TITLE:	**Left Elevation**
SHEET NUMBER:	**A2.1**



2 Right Elevation Opt. OLD
1/8" = 1'-0"



1 Right Elevation Opt. 3 Door Cover Full
1/4" = 1'-0"

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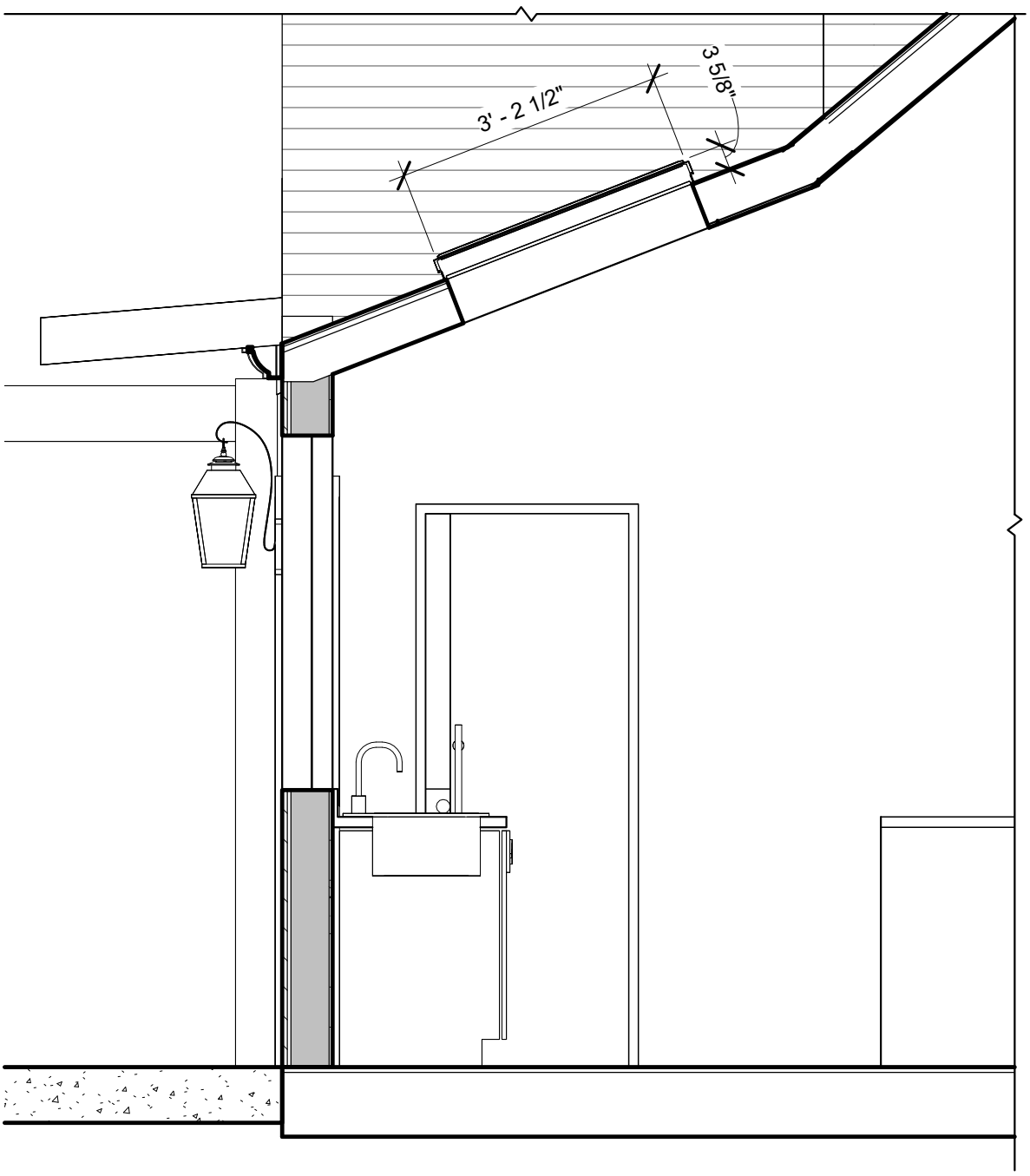
PROJECT NUMBER:	23.155
DATE:	07/02/2025
DRAWN BY:	AN & DF
CHECKED BY:	MSW

REVISIONS:

SEAL:

SCALE:	As indicated
SHEET TITLE:	**Right Elevation**
SHEET NUMBER:	**A2.2**



1 Skylight
1/2" = 1'-0"

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PROJECT NUMBER:	23.155
DATE:	06/20/2025
DRAWN BY:	DF
CHECKED BY:	MSW

SHEET TITLE: **Skylight Section**

SHEET NUMBER: **A3.0**

FS Fixed Skylight
Technical Product Data Sheet

Description
- FS Fixed Deck Mount Skylight that mounts to the roof deck. Fixed skylight, provided with various glazings, is manufactured with a white finished (optional stain grade) pine frame/sash, a neutral gray aluminum profile (optional copper) and an insulated glass unit.

Installation
- Designated top, bottom, and sides for installation in one direction.
- Single unit applications or combination flashing for multiple skylight applications, over/under, side by side.
- 14 degrees to 85 degrees, use standard installation procedure.

Flashings
- EDL – Engineered neutral gray flashing for single installation with thin roofing material (½" max) for roof pitches from 14-85 degrees.
- EDW – Engineered neutral gray flashing for single installation with tile (over ¾") roofing material for roof pitches from 14-85 degrees.
- EDM - Engineered neutral gray flashing for single installation with metal roof (1½"-1¾" max profile) for roof pitches from 14-85 degrees.
- EKL- Engineered neutral gray flashing for multiple skylights with thin roofing material (Max. 5/16") on roof pitches from 14 to 85 degrees.
- EKW – Engineered neutral gray flashing for multiple skylights with high profile roofing material (Max. 3½") on roof pitches from 15 to 85 degrees.
- Applications less than 14-degree roof pitch - flashing provided by others.

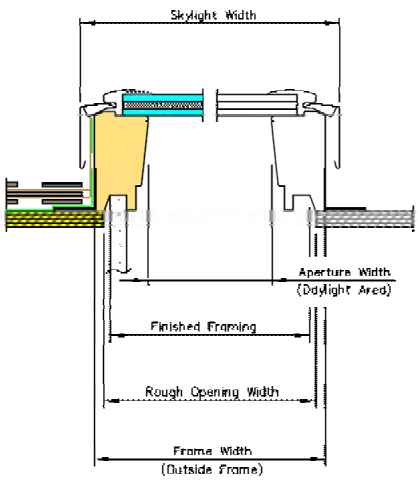
Interior Accessories
- FSCD - Solar powered Room darkening - double pleated shade.
- FSLD - Solar powered Light filtering - single pleated shade.

Type Sign
- Example: FS C01 0004E 01BM05
- Located on bottom of interior frame.

Standard Sizes
- A06, C01, C04, C06, C08, C12, D26, D06, M02, M04, M06, M08, S01, S06
- No custom sizes available.

Warranty
- **Installation** – 10 years from the date of purchase; VELUX No Leak Warranty warrants skylight installation. Must be installed with VELUX flashings and included adhesive underlayment.
- **Skylight** – 10 years from the date of purchase; VELUX warrants that the skylight will be free from defects in material and workmanship.
- **Glass Seal** – 20 years from the date of purchase; VELUX warrants that the insulated glass pane will not develop a material obstruction of vision due to failure of the glass seal.
- **Hail Warranty** – 10 years from the date of purchase; VELUX warrants only laminated glass panes against hail breakage.
- **Accessories and Electrical Components** – 5 years from the date of purchase; VELUX warrants Velux shades and control systems will be free from defects in material and workmanship.

Cross Section

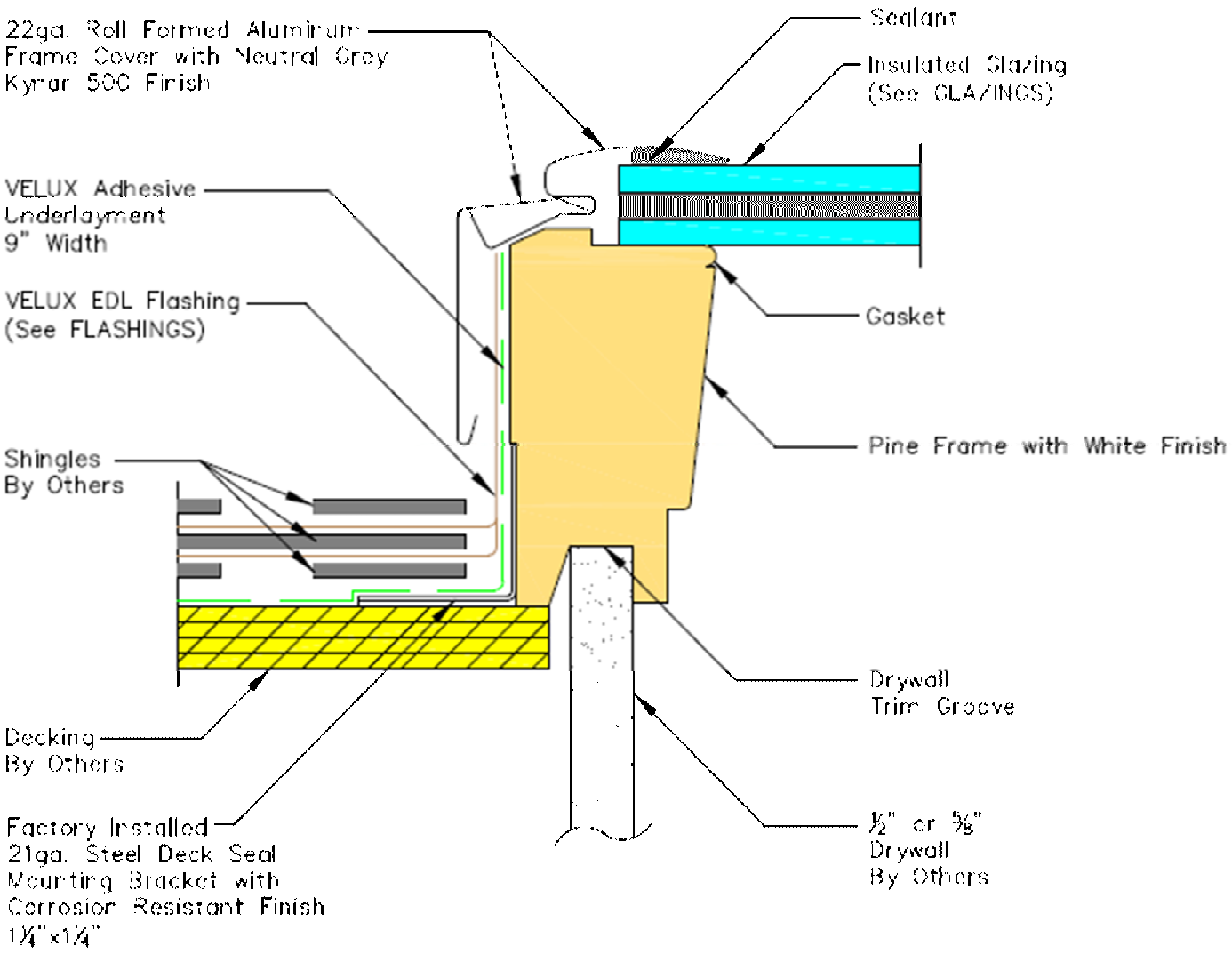


Size	Rough Opening Width	Frame Width	Frame Aperture Width	Skylight Width	Rough Opening Height	Frame Height	Frame Aperture Height	Skylight Height	Daylight Area (Sq. Feet)
A06	14 ½	15 ¼	11 15/16	16 1/8	45 ¾	46 ¼	42 15/16	47 ¼	3.56
C01	21	21 ½	18 3/16	22 3/8	26 7/8	27 3/8	24 1/16	28 3/8	3.03
C04	21	21 ½	18 3/16	22 3/8	37 7/8	38 3/8	35 1/16	39 3/8	4.43
C06	21	21 ½	18 3/16	22 3/8	45 ¾	46 ¼	42 15/16	47 ¼	5.43
C08	21	21 ½	18 3/16	22 3/8	54 7/16	54 15/16	51 5/8	55 15/16	6.52
C12	21	21 ½	18 3/16	22 3/8	70 ¼	70 ¾	67 7/16	71 ¾	8.52
D26	22 ½	23 ½	19 15/16	24 1/16	22 15/16	23 7/16	20 1/8	24 7/16	2.78
D06	22 ½	23 ½	19 15/16	24 1/16	45 ¾	46 ¼	42 15/16	47 ¼	5.94
M02	30 1/16	30 9/16	27 ¼	31 7/16	30	30 ½	27 3/16	31 ½	5.15
M04	30 1/16	30 9/16	27 ¼	31 7/16	37 7/8	38 3/8	35 1/16	39 3/8	6.64
M06	30 1/16	30 9/16	27 ¼	31 7/16	45 ¾	46 ¼	42 15/16	47 ¼	8.13
M08	30 1/16	30 9/16	27 ¼	31 7/16	54 7/16	54 15/16	51 5/8	55 15/16	9.77
S01	44 ¼	44 ¾	41 7/16	41 9/16	26 7/8	27 3/8	24 1/16	28 3/8	6.92
S06	44 ¼	44 ¾	41 7/16	41 9/16	45 ¾	46 ¼	42 15/16	47 ¼	12.36

Glazings and Certification

Glazing	NFRC U-factor	NFRC SHGC	NFRC Vt	Hallmark 426-H-672	IAPMO-ES ER 199	Fla Prod Approval 13303	HVHZ	TDI
04 Laminated -2.3 mm **l**aminated (0.76 mm interlayer) with tempered Low E366 outer pane.	0.44	0.26	0.60	√	√	√		SK-03
06 Impact – 2.3 mm laminated (2.28 mm interlayer) with tempered Low E366 outer pane for hurricane areas.	0.41	0.26	0.60	√	√	√		SK-14
08 White laminated -2.3 mm Laminated (0.76mm white interlayer) with tempered Low E366 outer pane.	0.44	0.25	0.42	√	√	√		SK-03
10 Snowload- 3 mm **l**aminated (0.76 mm interlayer) with tempered Low E366 outer pane.	0.48	0.27	0.45	√				

Consult with Customer Service for special glazing options.



Corner keys made of ASA Luran in neutral grey finish.

Hansø Official B2B Partners Deck

World's Most Popular Pergola

Direct-to-consumer home & patio revolution.

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Scandinavian Design

10 years

10-Year Warranty

Free USA Shipping

100 days FREE

100-Day Trial

Timeless Scandinavian Design

Universal, minimalist, scandinavian design American's love.

Quality Built to Last the Lifetime

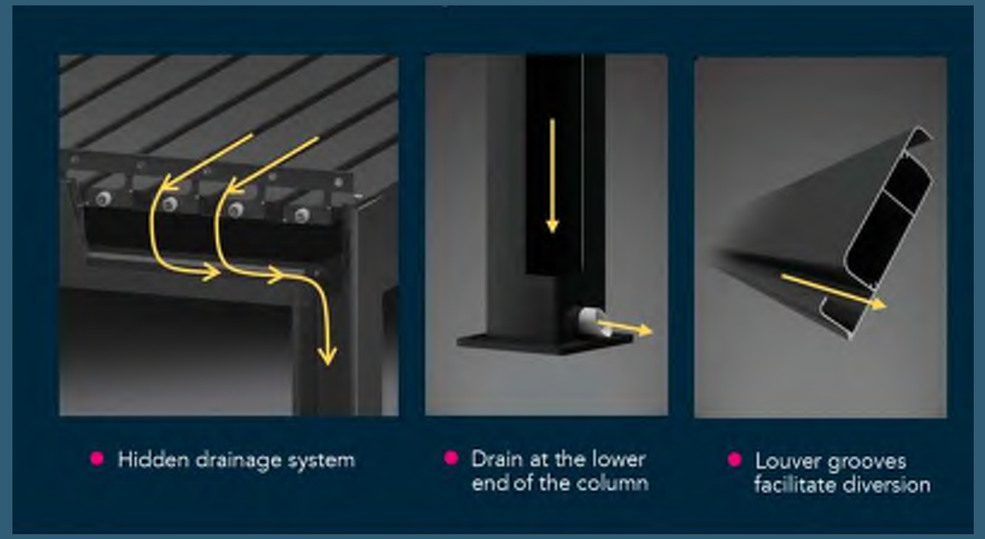
10-Year Warranty

Our pergolas are built to last 30+ years and features 10-years warranty.

Superior Materials

6005 T5 highest-grade aluminum & powder-coated paint made to withstand years of abuse.

All-Seasons, All-Weather



Fully Rainproof

The roof has louvers sealing mechanism and inbuilt rain gutters that allows it to be fully rainproof even during the heaviest of rains.

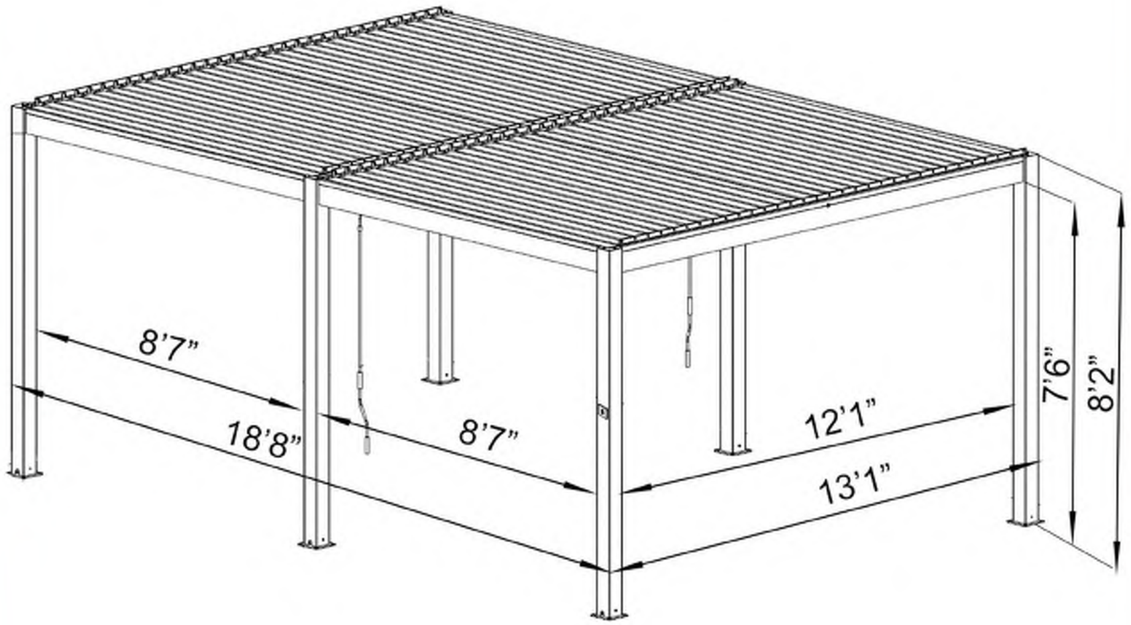
Fully Snowproof

The roof is certified to carry a snow load of up to 8.2 pounds per sqft. More than enough to withstand most winters, and if it's going to snow really heavily just open up the louvers.

Certified to Withstand Near-Hurricane Force Winds

All of our Pergolas have a 3rd party testing certificate to withstand winds up to 62 mph.

Hansø
designed in Sweden
13' X 19'



13' x 19' Hansø Pergola

Our biggest, most popular unit is made to fit 2 sets of furniture: dining table and sofa set and still have some space left. Also perfectly suited as a 2 car parking roof.

Selling Price: $11997

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13' x 19' Hansø Pergola

Hansø Retractable Sun Shades

Retractable sun & privacy shades that can be integrated together with our pergola. Available in all sizes for our pergola. The majority of people configure and buy 3 or 4.

10' Wall: $980
13' Wall: $1080
19' Wall: $1780

Hansø Retractable Sun Shades

About Us

Direct-to-consumer home & patio luxury revolution.

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★★★★★

Rated Excellent (2500+ Reviews)

Hansø is the first-ever direct-to-consumer disruptor of the luxury home & patio constructions industry. Hanso was born and designed in Sweden, with an international European team and a goal of making Scandinavian luxury accessible to everyone.

We innovates the luxury home & patio constructions industry by cutting up to 5 middlemen and standardizing the manufacturing process to just a few sizes. Allowing us to deliver a superior quality than tradition competitors at up to 8x better price for the end consumer.

In 2021 we've launched in the USA, and have fully sold out of the inventory 3 times in just under 48h.

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 5¼ in. to 12 in. create a range of exposures from 4 in. to 10¾ 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.

Select Cedarmill©

Smooth

Beaded Cedarmill©

Beaded Smooth

Custom Colonial Roughsawn®

Custom Colonial Smooth®

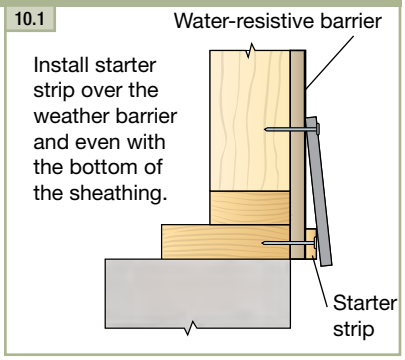
Installation of HardiePlank® Lap Siding

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 1¼ 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.

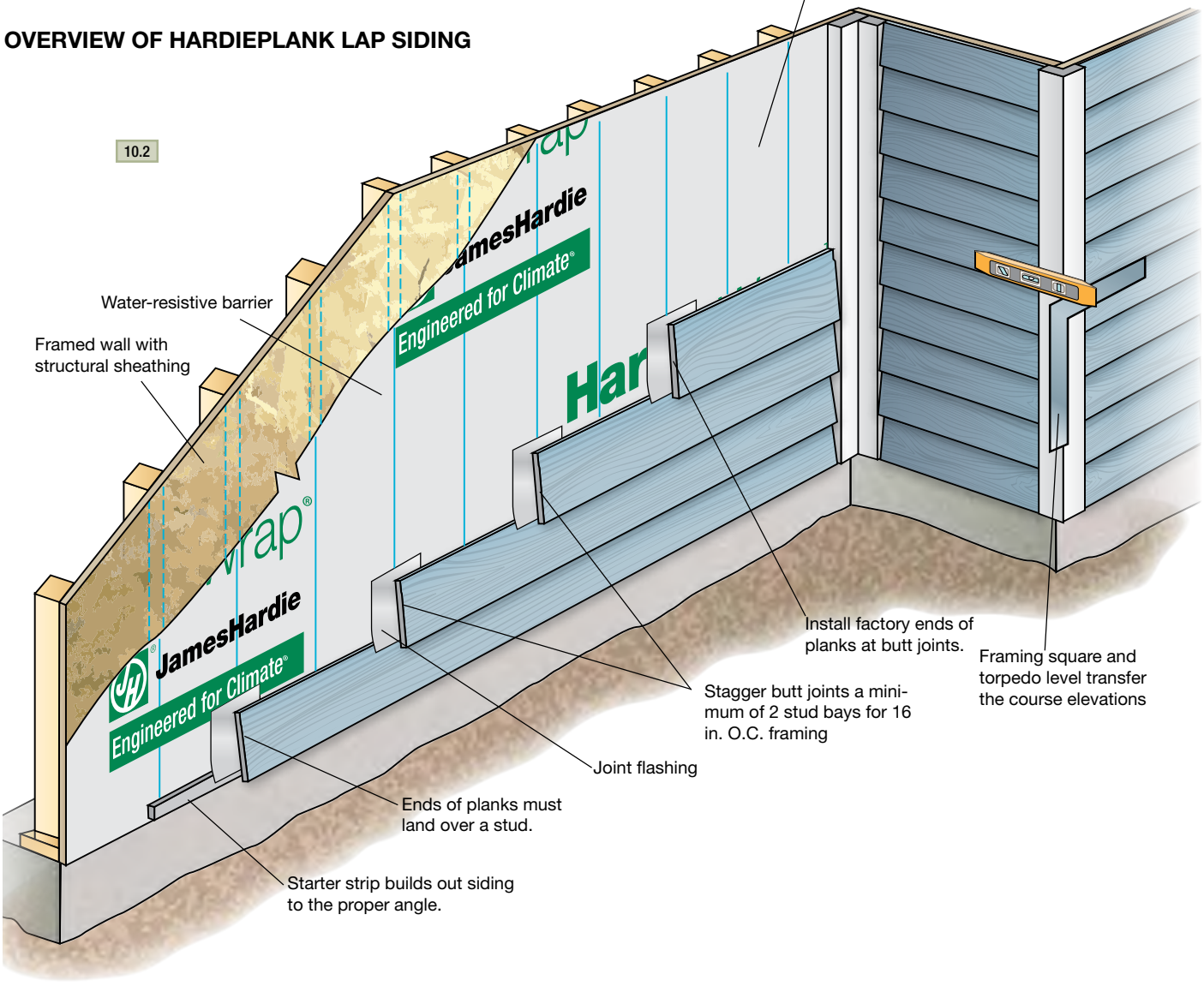
10.1



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

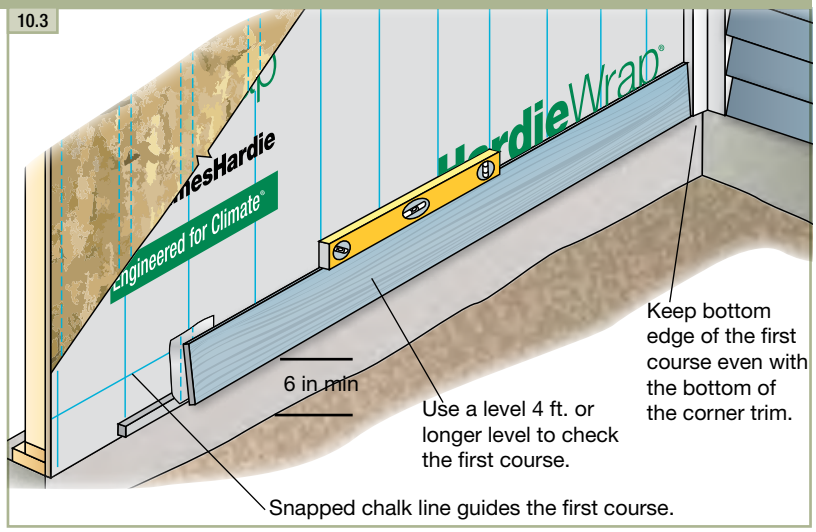
OVERVIEW OF HARDIEPLANK LAP SIDING

10.2



INSTALLING THE PLANKS

10.3



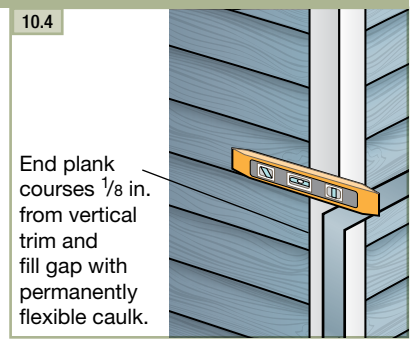
The first course of HardiePlank® siding is critical to the proper installation of the plank on the rest of the building. The first course should start at the lowest point of the house and within required clearances. Special attention should be made to ensure that it's straight and level. Attention should 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 ¼ in below the edge of the starter strip (maintain required clearances) and secure.
3. Run the siding to the HardieTrim® board leaving a 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

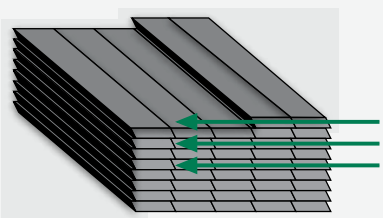
10.4



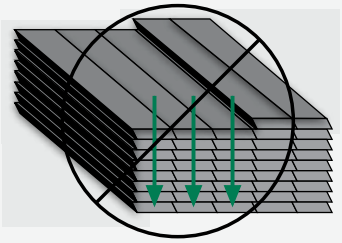
For the best looking installation, make sure that the heights of the plank courses match on both sides of a corner. Use a framing square, speed square or a level to match up the plank heights. Check every few courses to make sure proper heights are being maintained.

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.

Pull from accross the stack



Do not go down the stack



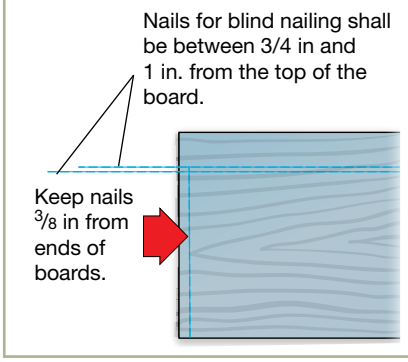
Installation of HardiePlank® Lap Siding (cont.)

BLIND NAILING (nailing through top of plank)

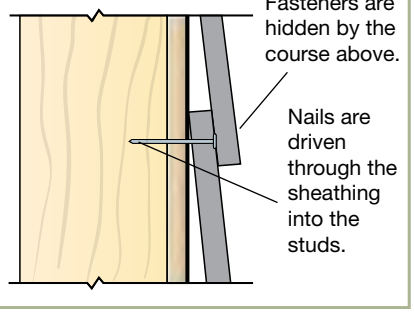
Blind nailing is recommended for installing any type of HardiePlank® lap siding including ColorPlus® siding. With blind nailing, each course covers the fasteners on the course below, which provides a better looking installation.

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.

10.5 **Blind nailing measurments**



10.6 **Blind nailing**

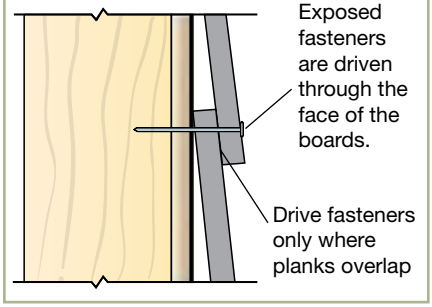


Avoid placing fasteners near the top edge of the plank. This practice, called “high nailing”, may lead to loose planks, unwanted gaps or rattling. **Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends 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**

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**

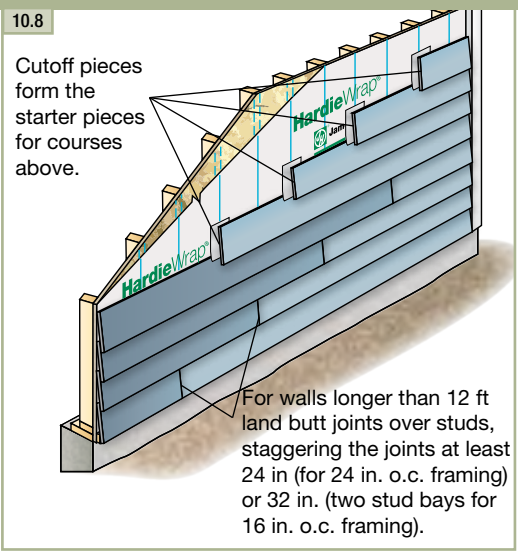


STAGGERING THE BUTT JOINTS

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



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

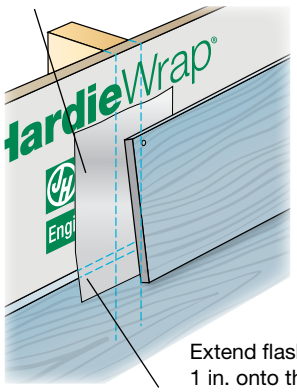
Flashing behind butt joints provides an extra level of protection against the entry of water at the joint. James Hardie recommends 6 in. wide flashing that overlaps the course below by 1 in. Some local building codes may require different size flashing.

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.

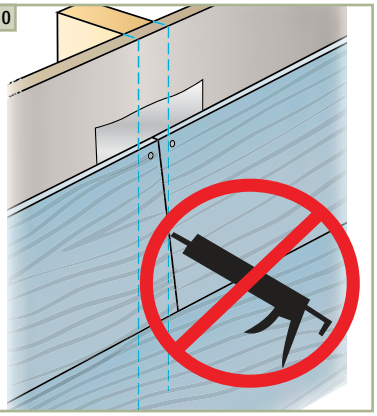
TIP: Use light-colored joint flashing when using light-colored ColorPlus lap siding or other siding with a light-colored finish. Dark-color joint flashings should be used on siding with dark finishes.

10.9



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

10.10



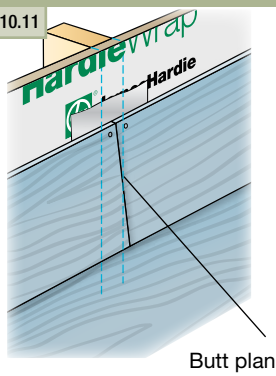
Caulking at HardiePlank lap siding butt joints is not recommended for ColorPlus for aesthetic reasons as the caulking and ColorPlus will weather differently. For the same reason, do not caulk exposed nail heads. Refer to the ColorPlus touch-up section for details

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.

10.11



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.)

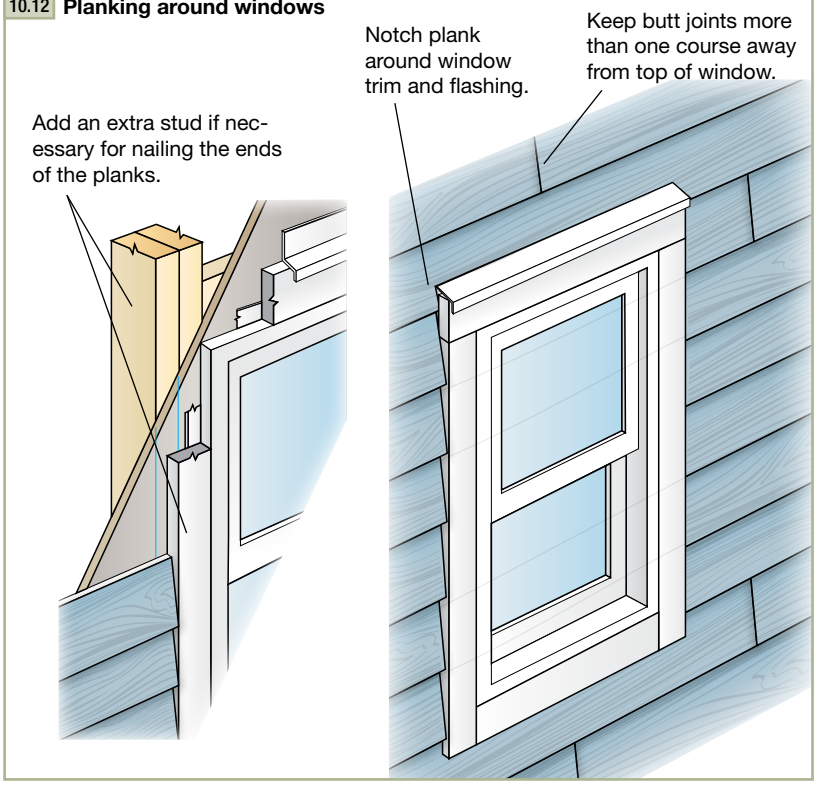
CONTINUING THE INSTALLATION

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.

10.12 **Planking around windows**



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.

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.

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:

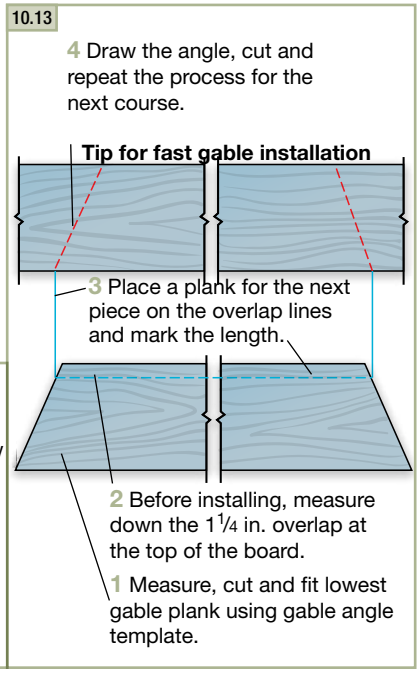
1. Tack up a small scrap piece of siding where the first gable course is going.
2. Hold a second small piece of siding against the eave or rake board.
3. Trace the angle onto the scrap.
4. Cut that line and label the scrap as the template for the gable angle. The template can then be used to transfer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

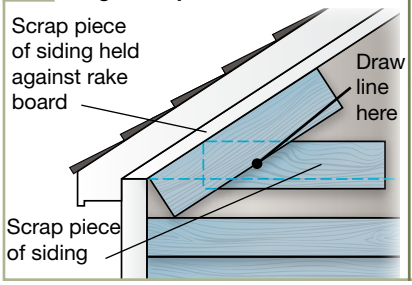
1. Cut and fit the lowest course of siding.
2. Before installing, lay it flat and measure down 1¼ in. from the top edge of the plank for the course overlap. Make a mark on both ends.
3. Set a piece of uncut siding on top of the first piece, aligning the bottom edge with the overlap marks. Transfer the 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.

10.13



10.14 **Angle Template**



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
wood studs	blind nail	16 in o.c.	3 9
		24 in o.c.	16
	face nail	16 in o.c.	2 5
		24 in o.c.	2 5
steel studs*	blind nail	16 in o.c.	8 13
		24 in o.c.	
	face nail	16 in o.c.	7 12
		24 in o.c.	
Direct to Masonry			14
7/16 in OSB or equivalent (face nailed)			4

Fastener Type

2 — .113 in. x .267 in x 2 in. — 6D common
3 — .093 in. x .222 in. x 2 in. — 6D siding nail
9 — No 11ga 1.25 in long — roofing nail
7 — Ribbed Bugle-Head No. 8 .323 in. x 1.625 in — screws
8 — Ribbed Wafer-Head No. 8 (.375 in x 1.25 in)
12 — [AKN-100] .100 in x .25 in x 1.5 in — ET&F
13 — [AGS-100] .100 in x .313 in. x 1.5 in
14 — [ASTM C-90] ASM-144-125 (P/C) .30 in x .14 in x 1.25 in — masonry nail
5 — .113 in. x .260 in x 2.375 in — 8D common
16 — 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 DECEMBER 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

1. Position cutting station so that airflow blows dust away from the user and others near the cutting area.
2. Cut using one of the following methods:
   - a. 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.
   - b. Better: Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
   - c. 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.

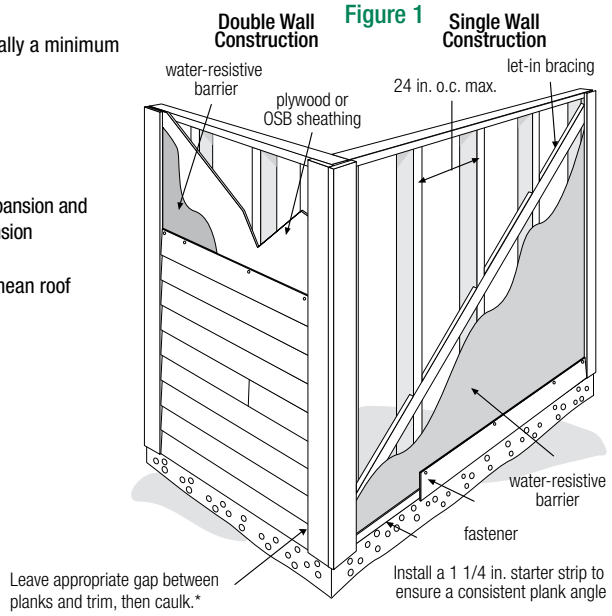
IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system 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.

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
- 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[1], which complies with building code requirements.
- When installing James Hardie products all clearance details in figs. 3-14 must be followed.
- 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.
- 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.

Figure 1



INSTALLATION: JOINT TREATMENT

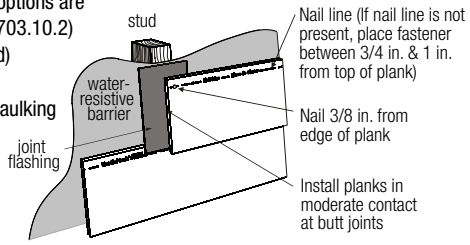
One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

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

Figure 2



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. *Refer to Caulking section in these instructions.

[1]For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com

SELECT CEDARMILL© | SMOOTH | BEADED CEDARMILL© | BEADED SMOOTH | CUSTOM COLONIAL™ SMOOTH | CUSTOM COLONIAL™ ROUGHSAWN

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CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

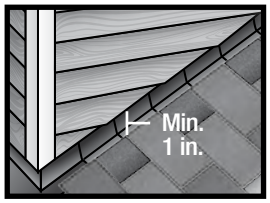


Figure 4
Horizontal Flashing

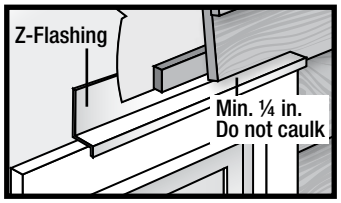


Figure 5
Kickout Flashing

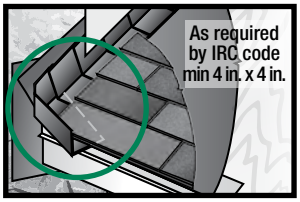


Figure 6
Slabs, Path, Steps to Siding

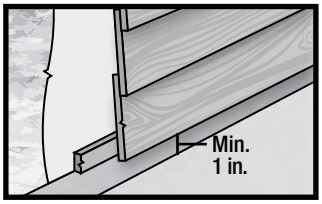


Figure 7
Deck to Wall

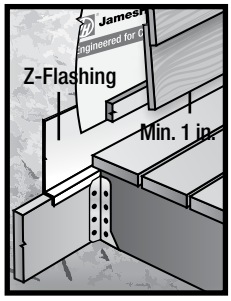


Figure 8
Ground to Siding

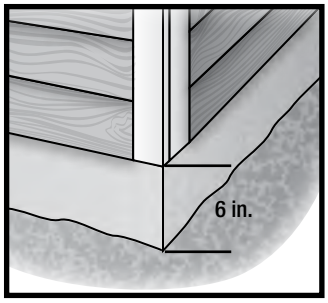


Figure 9
Gutter to Siding

Figure 10
Sheltered Areas

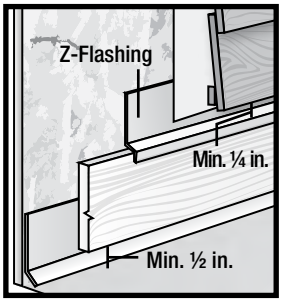


Figure 11
Mortar/Masonry

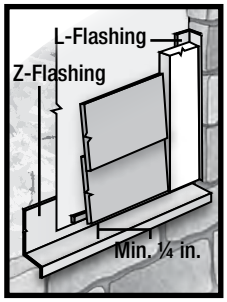


Figure 12
Drip Edge

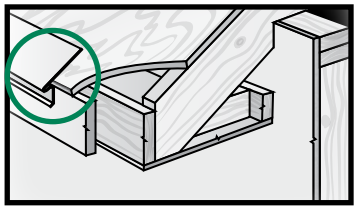


Figure 13
Block Penetration
(Recommended in HZ10)

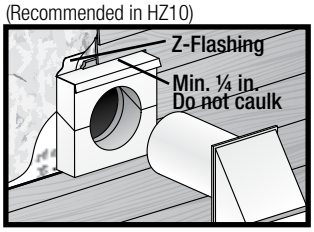
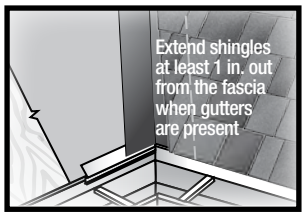


Figure 14
Valley/Shingle Extension



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 Panelfast® 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

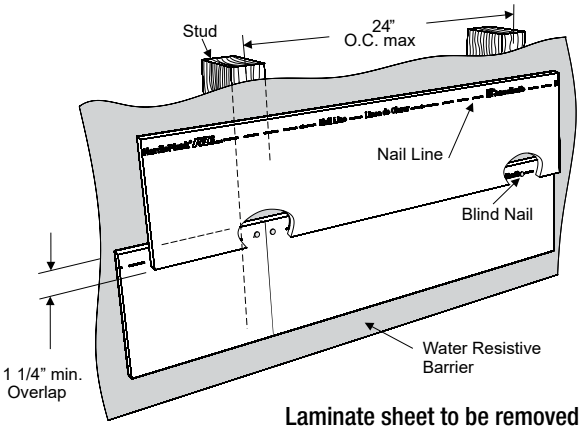


Figure 15

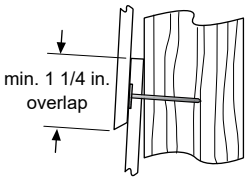
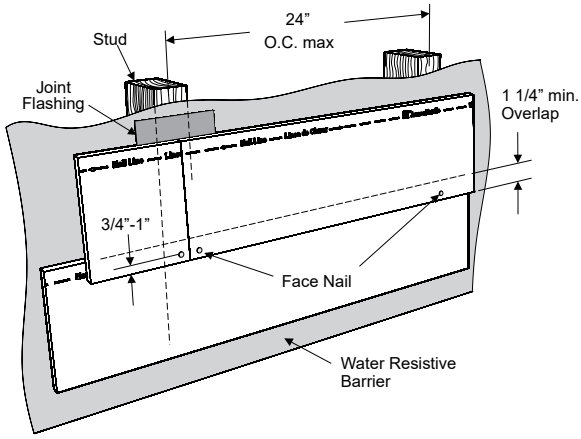


Figure 16



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

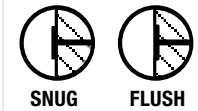
Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

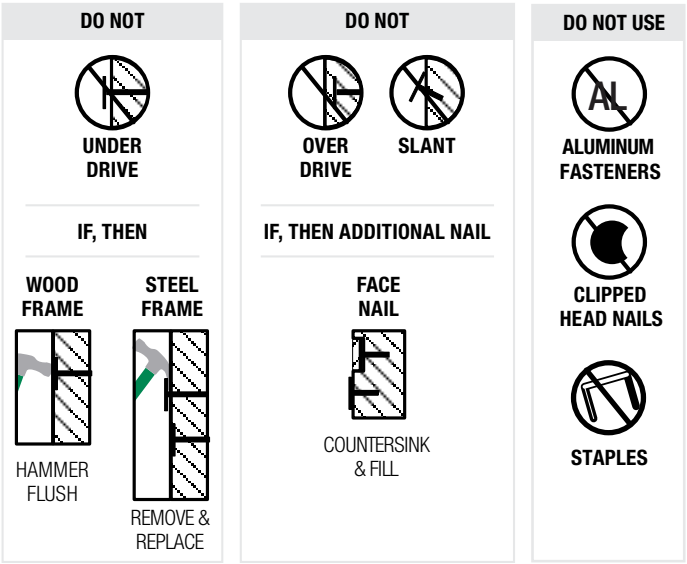
CAULKING

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".**

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).





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.

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 coaters, 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

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.)	(exposure)	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

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.

HS11119 P4/4 12/19

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.

RECOGNITION: I 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.

HardieTrim® Boards Products Description

HardieTrim® boards come finished with either the PrimePlus® factory primer and sealer or with ColorPlus® Technology. The ColorPlus® coating 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.

HARDIETRIM® 5/4, 4/4 BOARDS

HardieTrim® 5/4, 4/4 board is a decorative non-load bearing trim product. HardieTrim 5/4 board is 1 in. thick, HardieTrim 4/4 board is 3/4 in thick, and both can be purchased in 10 ft. and 12 ft. lengths, based on local availability. In addition to frieze, rake, window, door, and corner details, HardieTrim 5/4, 4/4 boards may be used to construct light blocks, column wraps and decorative scroll work. Available in commonly-used nominal widths from 4 in to 12 in.

HARDIETRIM® BATTEN BOARDS

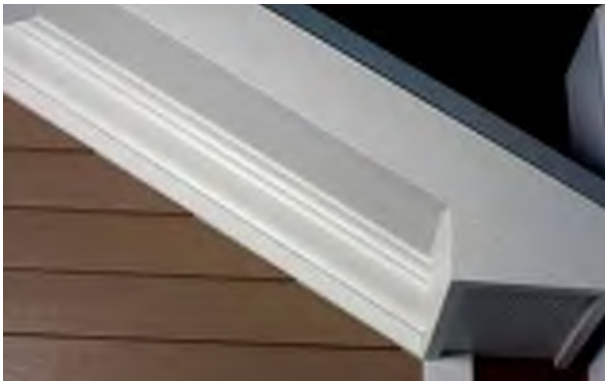
HardieTrim® Batten Boards are a decorative non-load bearing trim product. HardieTrim® Batten Boards are ¾ in. thick, 2½ in. wide, and come on 12 ft. lengths. See your local dealer for details and availability of product colors and accessories.

HardieTrim 5/4, 4/4 board - Smooth

HardieTrim Batten board - Rustic and Smooth (not shown)

HardiePanel vertical siding with HardieTrim Batten board for the Board & Batten look.

A Complete James Hardie Exterior – Close-up on trim products.



ColorPlus TIP: HardieTrim 4/4, 5/4 boards with ColorPlus Technology is shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling the nail holes with a colored touch-up pen.

WARNING

DO NOT caulk nail heads when using ColorPlus products. Refer to the ColorPlus touch-up section

Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

CONCEALED FASTENING TABS

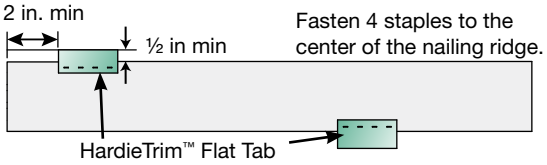
For Corners, Band Boards, Windows, and Door Applications: HardieTrim® boards can be installed with Flat Tabs (JH sku no. 280154) and Corner Tabs (JH sku no. 280155) which provide concealed fastening. Only Flat and Corner Tabs can be used with HardieTrim® boards to create a concealed fastening. Additional framing may be required to ensure the Flat and Corner Tabs are fastened properly to the structure. Special attention should be paid to the framing when using a sheathing that does not have fastener holding equivalent to OSB or Plywood sheathing.

Step 1: Attach Flat Tabs to the back side of the trim with 4 18 ga. ½ in L x ¼ in W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than ½ in from trim edges, using a pneumatic staple gun. (Figure 8.1)

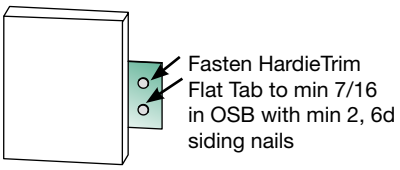
Step 2: For wood frame construction, attach the trim to the building using 2, 6d siding nails fastened through the Flat Tabs. ET&F or equivalent fasteners may be used to attach the Flat Tabs to steel frame construction. (Figures 8.2)

Fastener spacing will vary based on application. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.). (Figures 8.14)

8.1



8.2



Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim™ Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber:
HardieTrim™ tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.

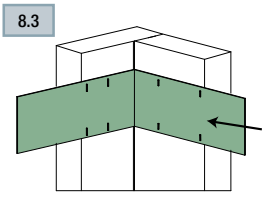
HardieTrim NT3® ColorPlus® boards with back grooves:
Remove the laminate sheet as soon as possible after attaching the trim to the building.

TRIMMING CORNERS

HardieTrim® boards are installed around corners by pre-building the corner off the wall with the Corner Tabs (JH sku no. 280155).

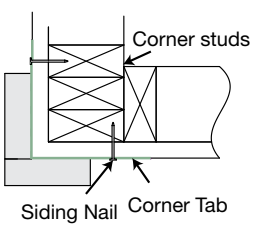
- Attach Corner Tabs to the back side of the trim with 8 18 ga. 1/2 in. L x 1/4 in W narrow crown corrosion resistant staples using a pneumatic staple gun. Ensure the Corner Tabs are fastened tight and straight to the trim boards. (Figures 8.3)
- For wood frame construction, attach the trim to the building with 2, 6d siding nails fastened through the Corner Tabs. ET&F or equivalent fasteners may be used to attach the Corner Tabs to steel frame construction. (Figures 8.4)
- Attach a Corner Tab 1 in. from each edge and every 20 in o.c.
- TIP: Creating a jig for the work station is recommended to ensure the corners are fastened securely and straight. (Figures 8.6)

8.3

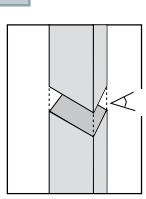


Use 4 staples per piece of trim to fasten the L-shaped tab to the pre-built corner. Use the nail line on the tabs as a guide.

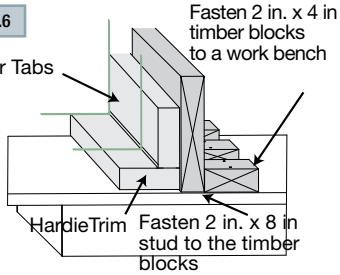
8.4



8.5



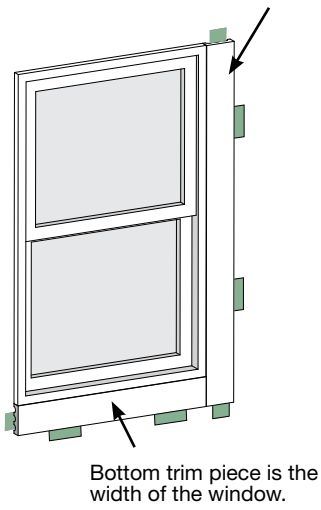
8.6



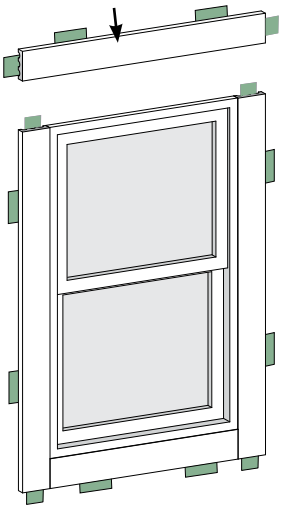
TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Trim the opening prior to the installation of the siding (Figure 8.7). Place a Flat Tab at the end of each trim board and one tab every 16 in OC. Attach the trim boards and Flat Tabs around the opening as shown in Figures 8.7 and 8.8.

8.7

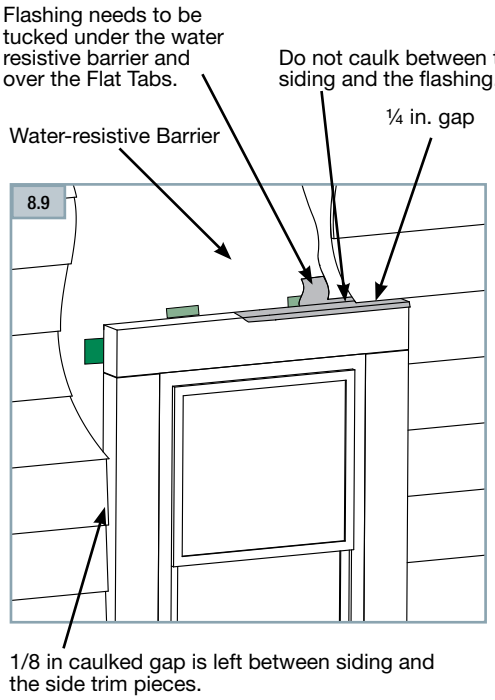


8.8



NOTE: Follow your window/door manufacturers installation instructions.

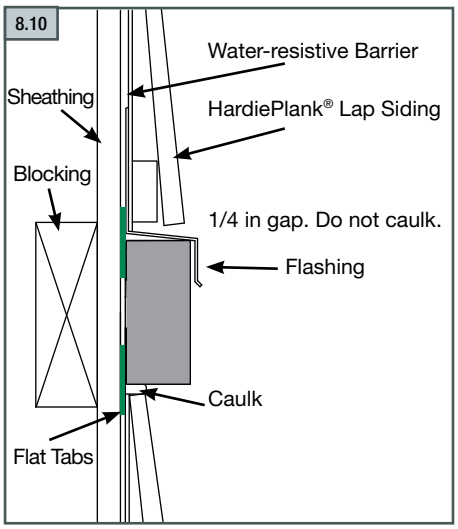
8.9



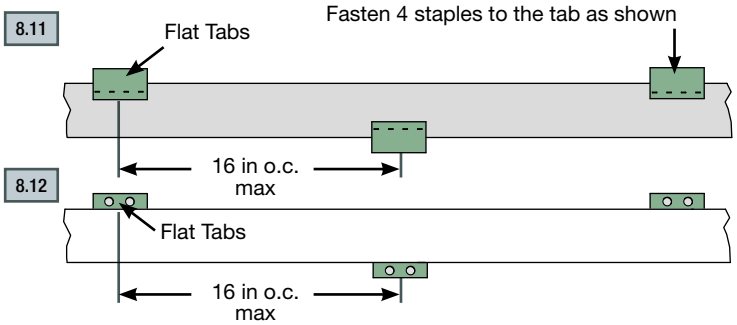
BAND BOARD

A flashing is required over the trim and Flat Tabs. (Figure 8.10) Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. o.c. The Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (Figures 8.11 and 8.12).

8.10

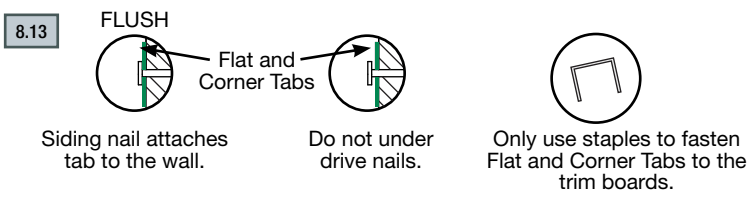


8.11



8.12

8.13



Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

FASTENER TABLE

8.14

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to Hardietrim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of flange into framing	Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16" OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through flange into framing		
	Minimum 20 gauge steel	One No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through flange into framing	For each piece of trim, install Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16" OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through flange into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) through flange into framing		

Wind-Borne Debris Region: “Supplemental fasteners may be necessary when installing tabs in a Wind-Borne Debris Region, please call Technical Services 800-942-7343 with any questions.”

RECOGNITION: HardieTrim boards may be installed as an equal alternative to conventional trim permitted for use in; the 1997 Uniform Building Code, Section 601.5.5; the 1997 Standard Building Code, Section 1404.1; the 1999 BOCA National Building Code, Section 1407.2.2; 2003 International Building Code, Section 1402.1, the 2003 International Residence Code for One - and Two - Family - Dwellings, Section R703.1. the 2003 International Residence Code for One - and Two - Family - Dwellings, Section R703.1. and the 1998 International One-and -Two -Family Dwelling Code,Section 601.1.

OUTSIDE CORNERS

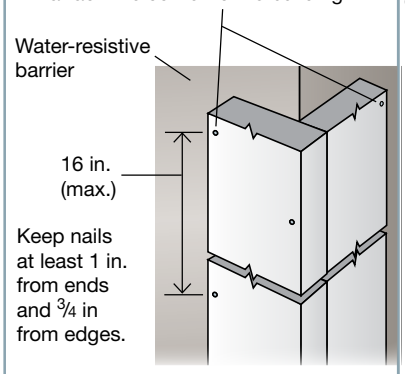
Corners made from HardieTrim® 5/4, 4/4 boards can be pre-assembled before they're installed. Pre-assembled corners look better and generally make the installation go more quickly. To join two pieces of HardieTrim 5/4, 4/4 boards for a corner, drive 2 in. 16 ga. corrosion-resistant finish nails 1/2 in. from the edge and spaced 16 in. apart along the edge.

To fasten 4 in. corners to the wall, drive a pair of finish nails or siding nails, (one nail into each face of the corner) with the nails spaced 16 in apart. For 6 in. corners, drive a pair of finish nails or siding nails into each face spaced 16 in apart. Nails should be kept 3/4 in. from the edges of the board and 1 in. from the ends.

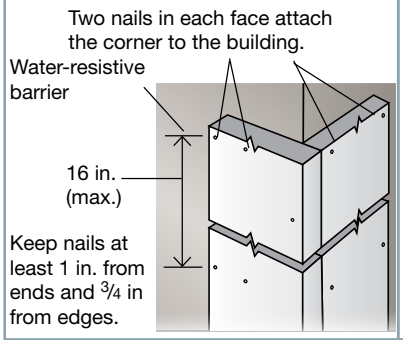
When walls are more than 10 ft high, splice corner boards together using weather cuts of at least a 22.5° angle. The angle of the weather cut must slope downward and away from the building. Then nail both boards to the building with the same attachment schedule as for pre-assembled corners, except that 4 in. HardieTrim 5/4, 4/4 boards that should get two nails per side every 16 in Only install trim by butting to it with the siding. Do not install any trim product over James Hardie® siding.

8.15

Pre-built corner installation 4 in. boards

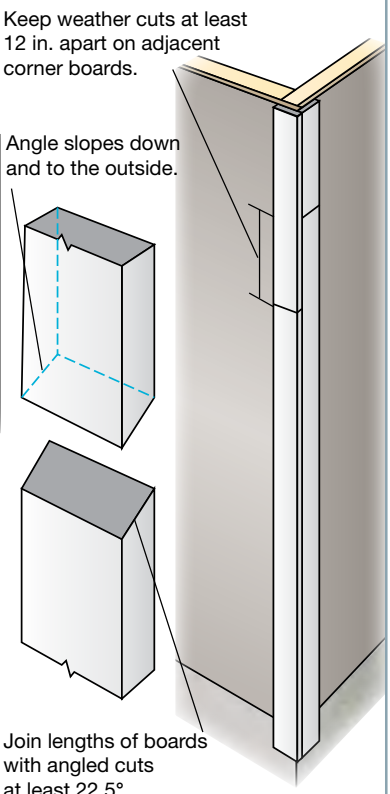


Pre-built corner installation 6 in. boards



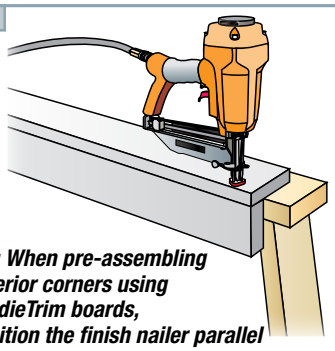
8.16

Weather cuts



NOTE: All weather cut joints should be touched up prior to installation.

8.17



***TIP:** When pre-assembling exterior corners using HardieTrim boards, position the finish nailer parallel with the trim*

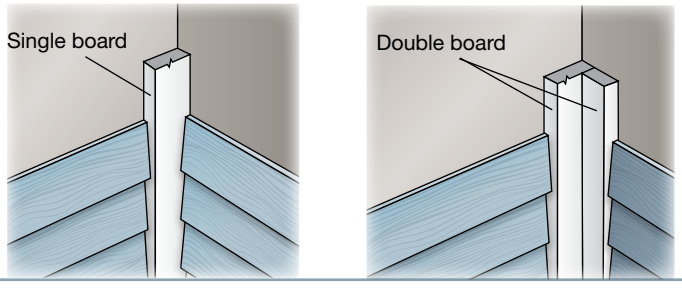
WARNING

Use only 2 in. 16-ga. finish nails to pre-assemble HardieTrim 5/4 boards corners.

INSIDE CORNERS

Inside corners can be made with either a single HardieTrim 5/4, 4/4 board in the corner, or with one board on each wall depending on the desired look.

8.18



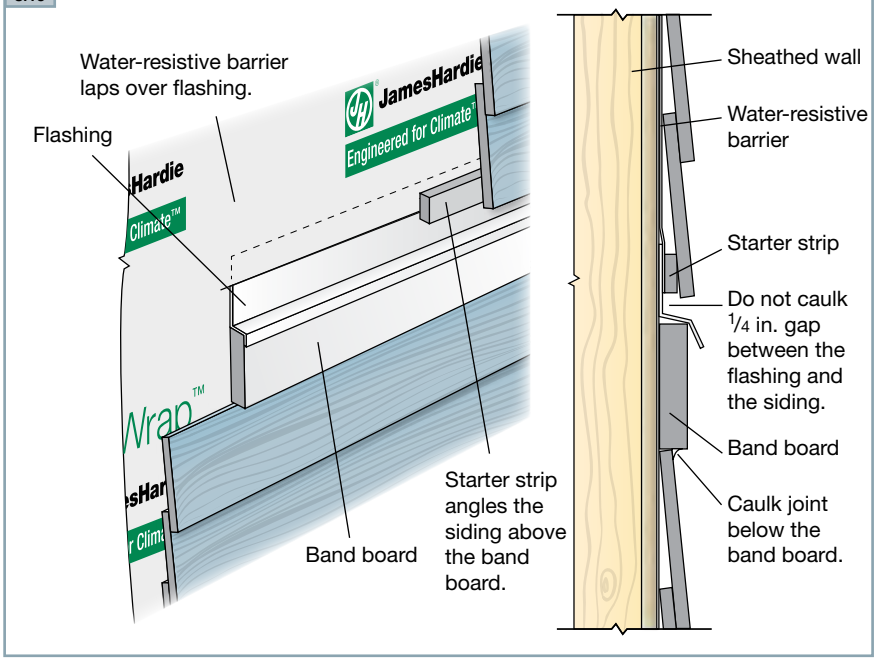
Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

BAND BOARD

A Band board is a decorative horizontal trim used to break up the field of siding on a building. Any width of HardieTrim® 5/4, 4/4 boards can be used for band board depending on the type of detail desired. If installing a band board, pay special attention to flashing details and allow for potential shrinkage of solid rim joists in the walls that the band board may be attached to.

Caulk between the underside of the band board and the siding below. Do not caulk between the flashing and siding above the band board, and maintain a 1/4 in. gap between the two. Also make sure that the water-resistive barrier laps over the flashing for a continuous drainage plane. If running lap siding or shingle siding above the band board, a starter strip should be installed first to maintain the correct siding angle. Small Periodic gaps should be left in the starter strip to provide an escape route for excess moisture that may drain down behind the siding.

8.19



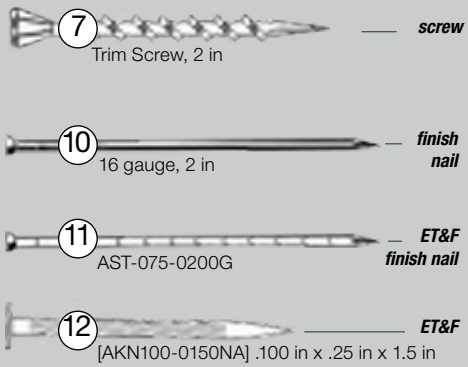
Use bevel-cut splice joints of at least 22.5° to join long lengths of HardieTrim 5/4, 4/4 boards. To attach band board to the building, drive two recommended fasteners every 16 in. for 4 in. and 6 in. boards. For 8 in. boards, use three fasteners every 16 in., and use four fasteners every 16 in. for 12 in. boards.

HARDIETRIM BOARDS 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.

Fastening Substrate	Approved Fastener
wood studs	10
over minimum 7/16 in OSB	10
steel studs	7, 12, 11
Pre-built corners	10

Fastening Types



Nailing Patterns

Pre-built corners	4 in.	1 nail every 16 in to attach boards together
		1 nail every 16 in for each board
	6 in.	1 nail every 16 in to attach boards together
		2 nails every 16 in for each board
Site-built corners & other areas (eg. windows, etc.)	4 in. & 6 in.	2 nails every 16 in
	8 in.	3 nails every 16 in
	12 in.	4 nails every 16 in

● *indicates recommended fasteners*

TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

WINDOW AND DOOR TRIM

Windows and doors must be installed per the manufacturer's instructions. Window flanges or flashings must be properly installed and lapped correctly under the water-resistive barrier prior to the installation of HardieTrim® 5/4, 4/4 boards. Once the HardieTrim 5/4, 4/4 boards is put on, proper flashing must be installed above the trim and lapped under the water-resistive barrier correctly.

Install HardieTrim 5/4, 4/4 boards around doors and windows using the "cap over" method, which means that the header or horizontal top piece of the trim extends and caps over the vertical jamb pieces on both sides. For windows, the bottom trim piece or sill trim fits in between the jambs.

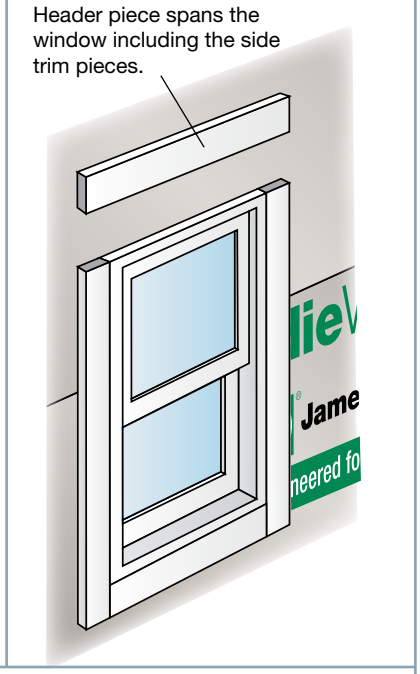
For cap-over trim installation:

1. Start by measuring the length of the bottom edge of the window, not including the flange.
2. Cut a piece of trim to that length and install it.
3. Next measure from the bottom of the installed trim to the top of the window.
4. Cut two pieces of trim to that length and install them on either side of the window.
5. For the cap, measure the distance between the outside edges of the side trim pieces. Cut a piece of trim to length and install it.

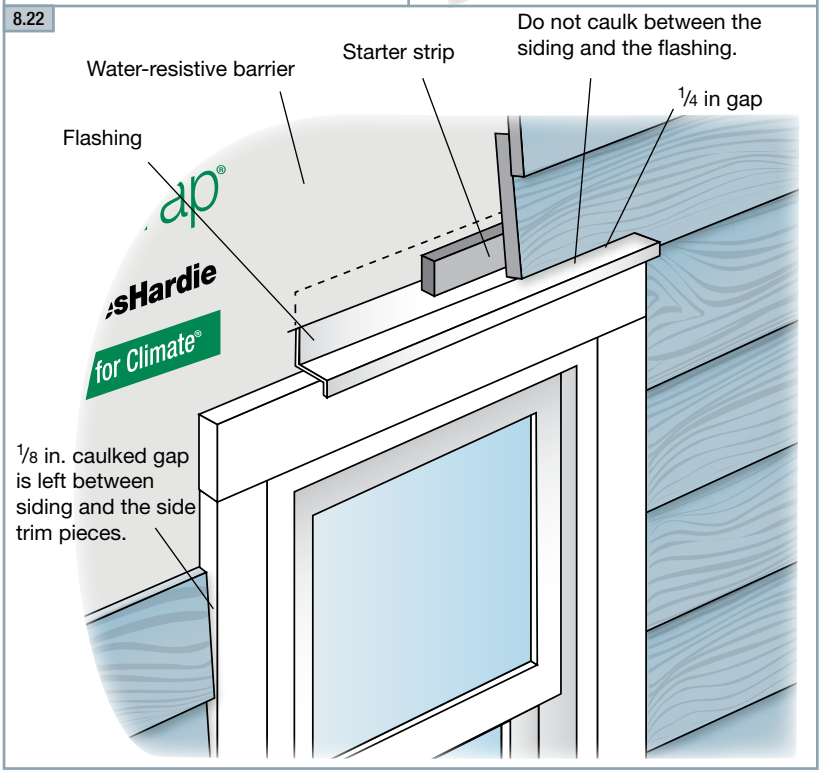
For doors the process is the same except that it starts with the side pieces, step three.

8.20 **Window and door trim**

8.21



8.22



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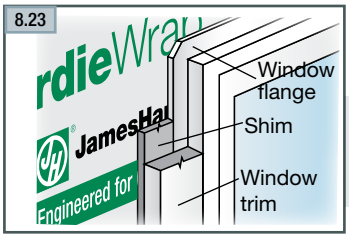


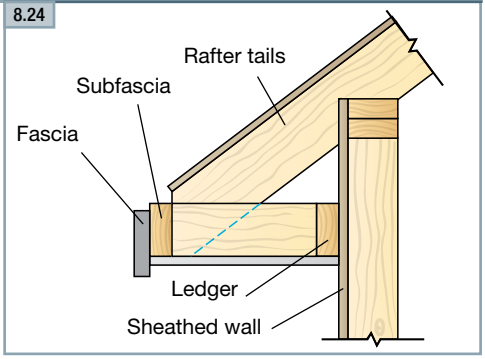
TIP: For trimming around windows and doors with attachment flanges, install a shim strip to build out the wall even with the flange. This strip lets the trim sit flat and parallel with the wall.

Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

INSTALLING RAKE AND FASCIA BOARD

HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes. James Hardie recommends that the fascia be no more than 2 in. larger than the subfascia, e.g. over a nominal 2 x 6 subfascia, install an 8 in. fascia board (7¼ in. actual) fascia. On longer fascia runs, join HardieTrim boards with weather/bevel cuts.

8.24



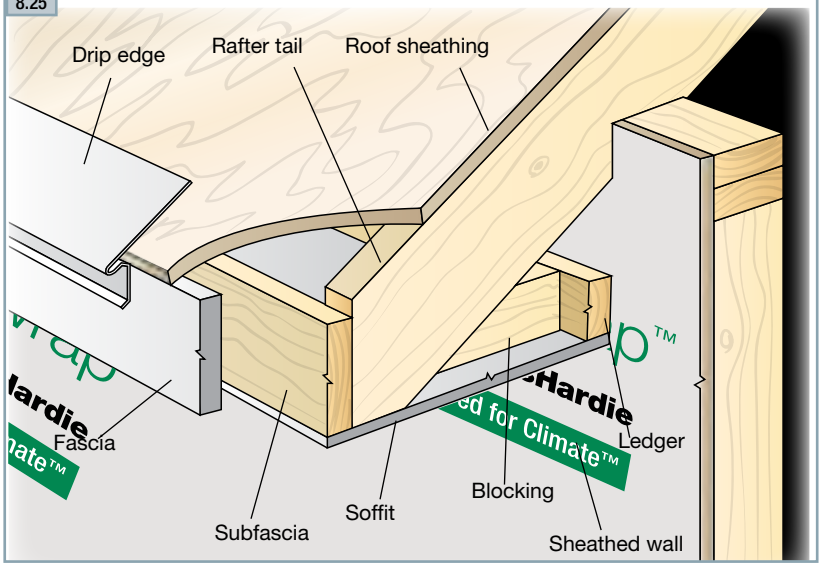
WARNING

Use only 2 in. 16-ga. finish nails to pre-assemble HardieTrim 5/4, 4/4 board corners.

DRIP EDGE

After the fascia is installed, a vinyl, coated aluminum or galvanized drip-edge flashing must be installed to the roof sheathing overlapping the fascia board. The drip edge helps protect the top edge of the fascia board and it minimizes water ingress into the soffit and/or cornice cavity. Choose a drip edge design that effectively channels water away from the face of the fascia and into gutters if present.

8.25

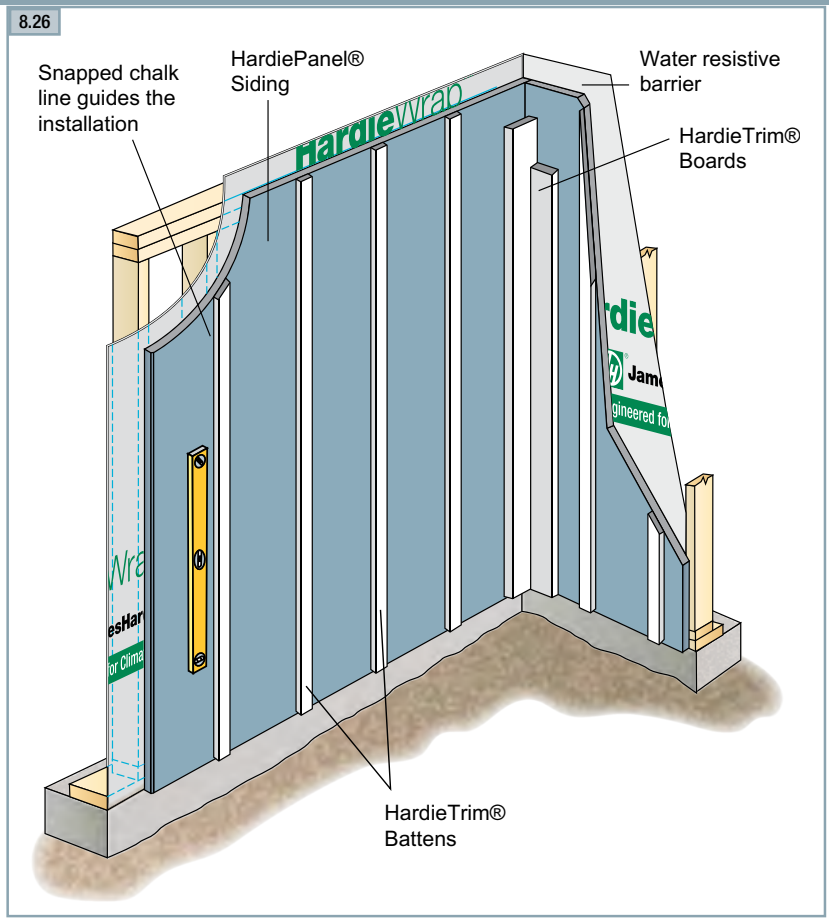


Installation of HardieTrim® Battens

GETTING STARTED

HardieTrim® Battens are intended to be used with HardiePanel® vertical siding to achieve a board and batten look. HardieTrim Battens must be attached to wood or steel backing using an approved fastener from the table below. When installing HardieTrim Battens, determine layout and mark where battens will be attached. To ensure that HardieTrim Battens are installed vertically and parallel to each other, either snap chalk lines or use a level. When attaching battens ensure that fasteners are a minimum of 3/4 in. from edges, 1 in. from ends, and a maximum of16 in. o.c.

8.26



ColorPlus® TIP:

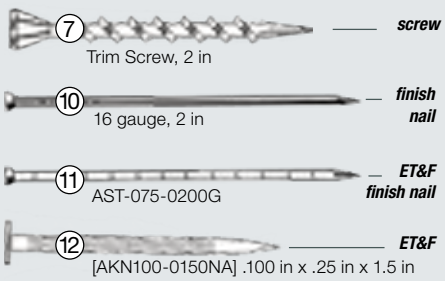
HardieTrim Battens with ColorPlus® Technology are shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling the nail holes with a colored touch-up pen. Finish nails are required for ColorPlus products.

HARDIETRIM BATTENS 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.

Fastening Substrate	Approved Fastener
wood studs	10
over minimum 7/16 in OSB	10
steel studs	7 12 11

Fastener Types



● *Indicates recommended fasteners. Required for ColorPlus Products.*

TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

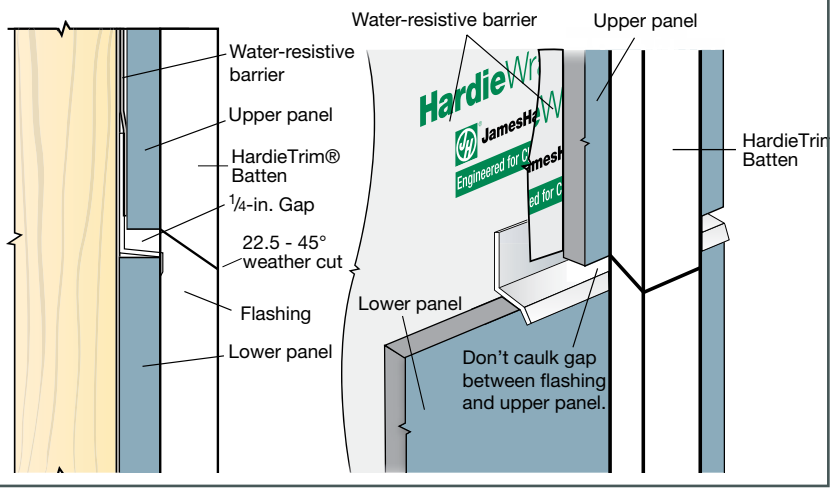
Installation of HardieTrim® Battens (cont.)

HORIZONTAL JOINT TREATMENT

Horizontal HardieTrim® Batten joints must occur at the same location as horizontal joints in HardiePanel® siding. Install horizontal HardieTrim Batten joints by using one of the following options:

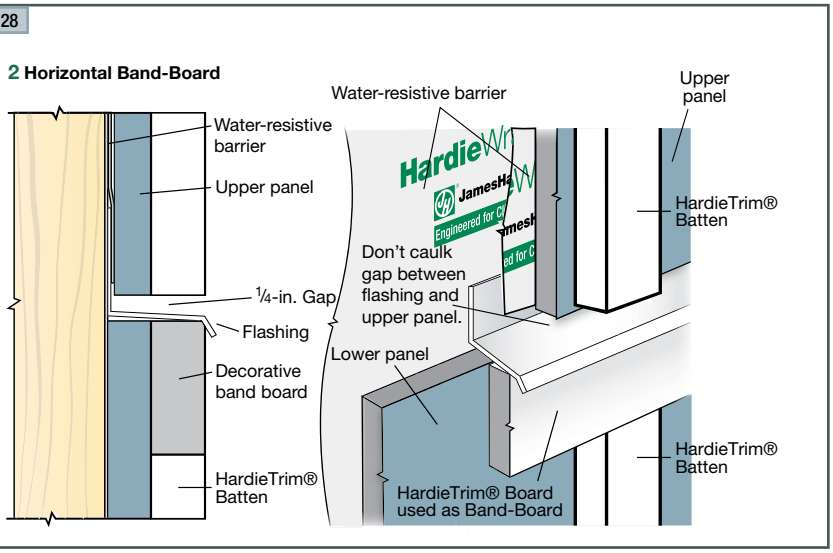
1. If HardieTrim Battens are going to be installed over horizontal panel joints without the use of a horizontal band board, follow the procedure as illustrated in fig. 8.27. Start installing HardieTrim Battens by creating a weather-cut of at least a 22.5° angle, making a joint at the same location as the panel joint. Attach the bottom batten. Make sure the top batten has a matching weather-cut and then install top batten.

8.27



2. If HardieTrim Battens are to be installed over horizontal panel joints with the use of a horizontal band board, follow the procedure as illustrated in fig. 8.28. If HardieTrim Battens are to be installed horizontally, they must be installed in the same manner as in fig. 8.28. Make sure the horizontal Z-flashing is installed over both the lower panel and the horizontal band board. Attach the bottom batten tight to the bottom edge of the band board. Next, leaving a minimum ¼ in. gap above the horizontal Z-flashing, install the top batten.

8.28



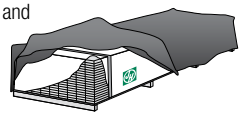
WARNING

Do not bridge floors with HardieTrim Battens and/or HardiePanel Siding. A horizontal joint should always be created between floors.

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

1. Position cutting station so that airflow blows dust away from the user and others near the cutting area.
2. Cut using one of the following methods:
   - a. 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.
   - b. Better: Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
   - c. 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.

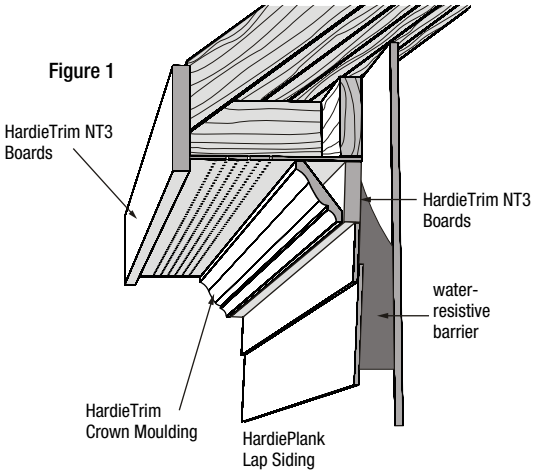
If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice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

HardieTrim® boards are decorative non-load bearing trim products.

Do not use HardieTrim boards to replace any structural component.

TABLE OF CONTENTS

Figure 1



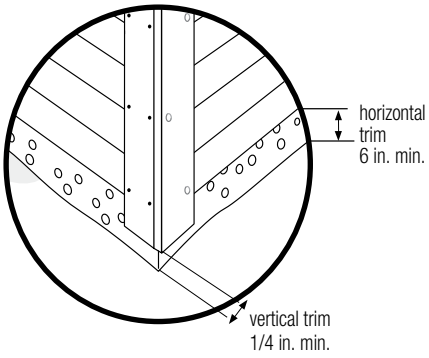
GENERAL REQUIREMENTS

- Wood or steel must be provided for attaching HardieTrim boards.
- Follow all applicable codes when installing HardieTrim boards.
- DO NOT install HardieTrim boards, such that they may remain in contact with standing water.

FLASHING/CLEARANCE REQUIREMENTS NO-COVER

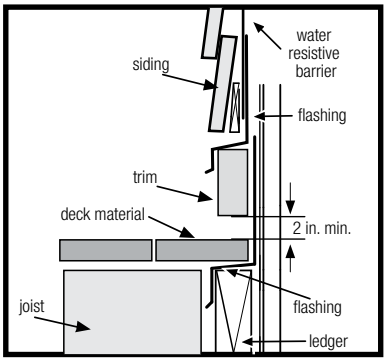
HardieTrim may be installed with a minimum 1/4 in. clearance when installed vertically to grade, decks, paths, steps, and driveways

Figure 2



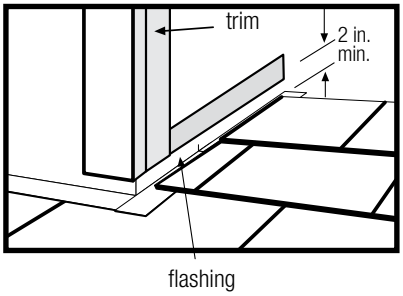
Maintain a minimum 2 in. horizontal clearance between James Hardie trim products and decks, paths, steps and driveways.

Figure 3



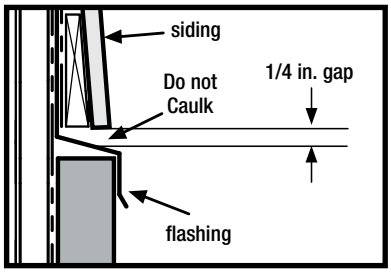
At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be installed per the roofing manufacturer's instructions. Provide a 2 in. clearance between the roofing and the bottom edge of the trim.

Figure 4



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

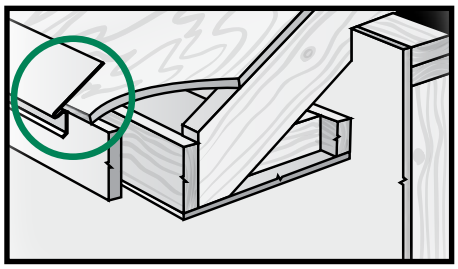
Figure 5



Drip Edge

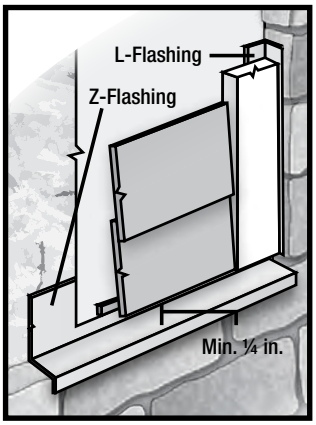
Figure 6

for fascia installation see page 6



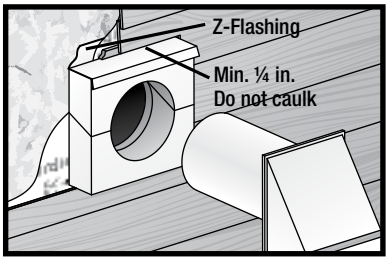
Mortar/Masonry

Figure 7



Block Penetration *Recommended in HZ10*

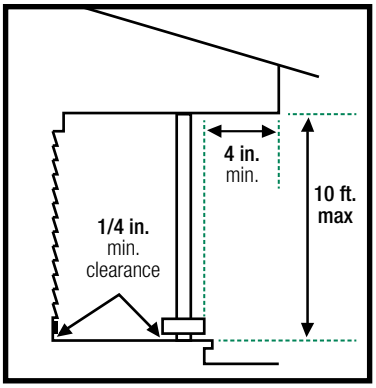
Figure 8



Valley/Shingle Extension

Figure 9

Figure 10



CLEARANCE REQUIREMENTS UNDER-COVER

Maintain a 1/4 in. clearance for HardieTrim boards installed under cover. Under cover is defined as:

- Not more than 10 feet below a roof overhang, and
- Not less than 4 inches horizontally from the edge of the roof overhang

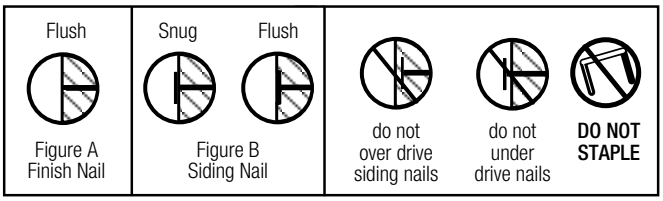
GENERAL FASTENING REQUIREMENTS

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."

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 trim. 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).



FACE NAILING REQUIREMENTS

Use 2 in. minimum 16 ga. finish nails to attach HardieTrim boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim boards to steel frame construction.

Fastening instructions are similar for all applications. When using finish nails, position nails no closer than 1/2 in. from the edges of the trim and for all other fasteners no closer than 3/4 in. Fasteners must be no closer than 1 in. from ends of trim and spaced a maximum of 16 in. O.C. Ensure trim is adequately fastened.

James Hardie recommends using stainless steel finish nails when installing HardieTrim products.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, and band boards)
4 in.	1 nail every 16 in. to attach boards together + 1 nail every 16 in. each board	2 nails every 16 in.	2 nails every 16 in.
6 in.	1 nail every 16 in. to attach boards together + 2 nails every 16 in. each board		
8 in.	-	3 nails every 16 in.	3 nails every 16 in.
12 in.	-	4 nails every 16 in.	3 nails every 16 in.

Use a 2 in. finish nail to fasten trim together. Longer finish nails may bend.

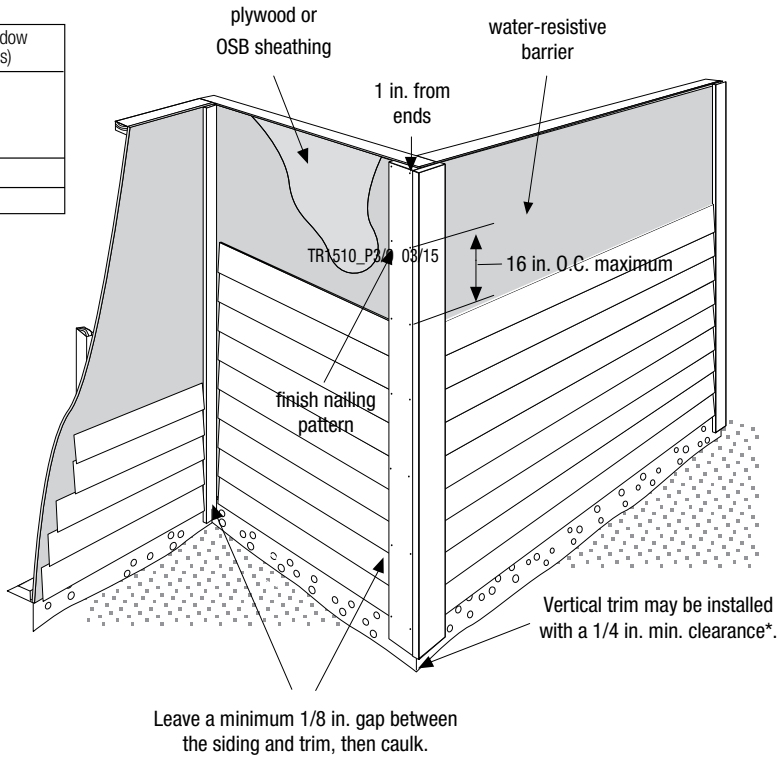


Figure 11

*Follow all applicable codes when installing HardieTrim boards

INSTALLATION

TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (figure 12).

Pre-Built Corners

Alternatively, corners can be pre-built off the wall using 2 in. finishing nails. Each side of the pre-built corner must be secured to the wall (figure 13).

Figure 12

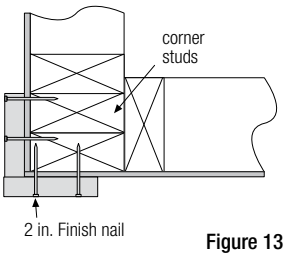
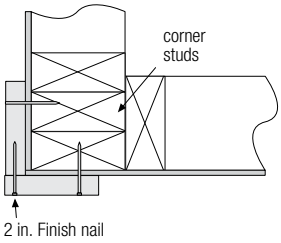


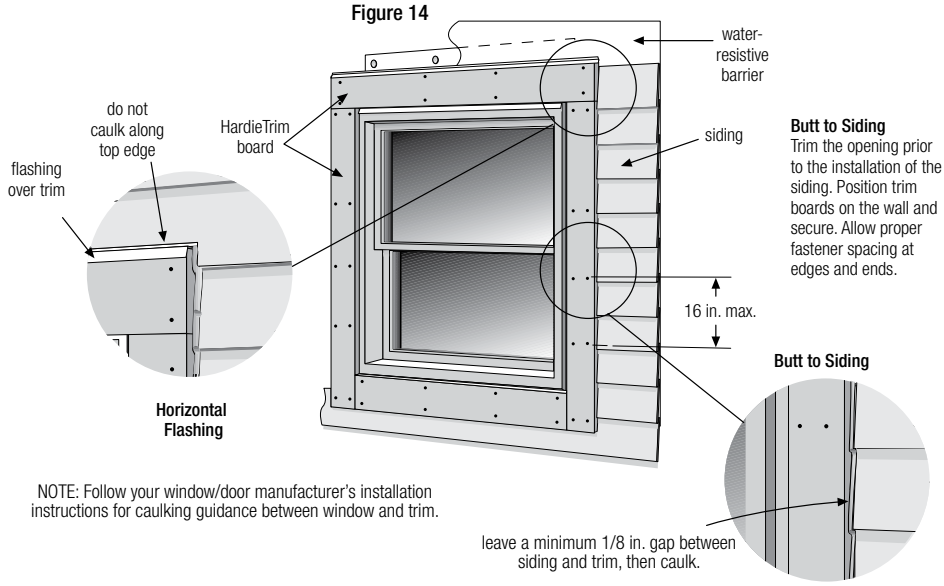
Figure 13



TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Flashing over trim is required per code for all installation methods. (figure 14)

Figure 14

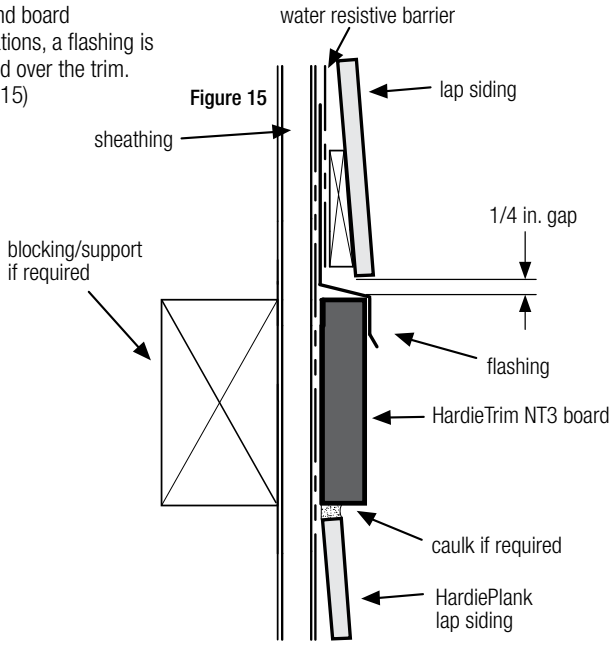


NOTE: Follow your window/door manufacturer's installation instructions for caulking guidance between window and trim.

BAND BOARD

For band board applications, a flashing is required over the trim. (figure 15)

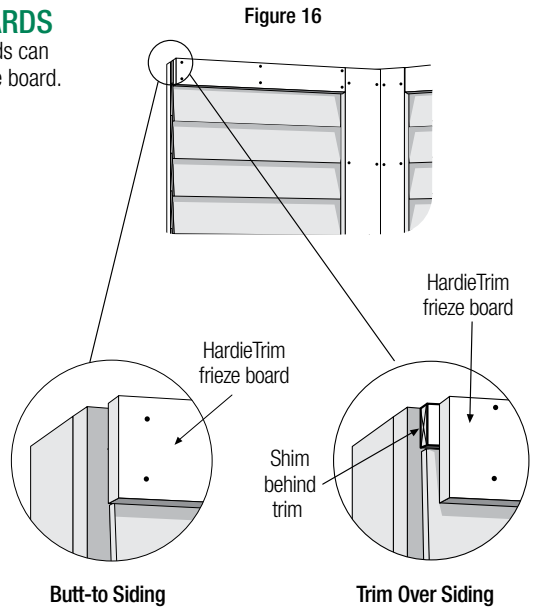
Figure 15



FRIEZE BOARDS

HardieTrim boards can be used as frieze board. (figure 16)

Figure 16



BATTEN BOARDS

HORIZONTAL PANEL JOINTS

At horizontal panel joints HardieTrim battens must be installed according to option 1 or 2 below. When installing HardieTrim Battens horizontally, they must be installed as a panel joint according to option 2.

Option 1

Figure 17 - No horizontal band board - Make a 22.5 - 45 degree weather cut, in the HardieTrim batten, just above the 1/4 in. clearance between panels.

Option 2

Figure 18 - Horizontal Band Board - Install a horizontal band board at the top of the bottom panel. Butt the lower batten to the band board and start the top batten at the bottom edge of the top panel. Maintain a 1/4 in. clearance above horizontal flashing.

Figure 17

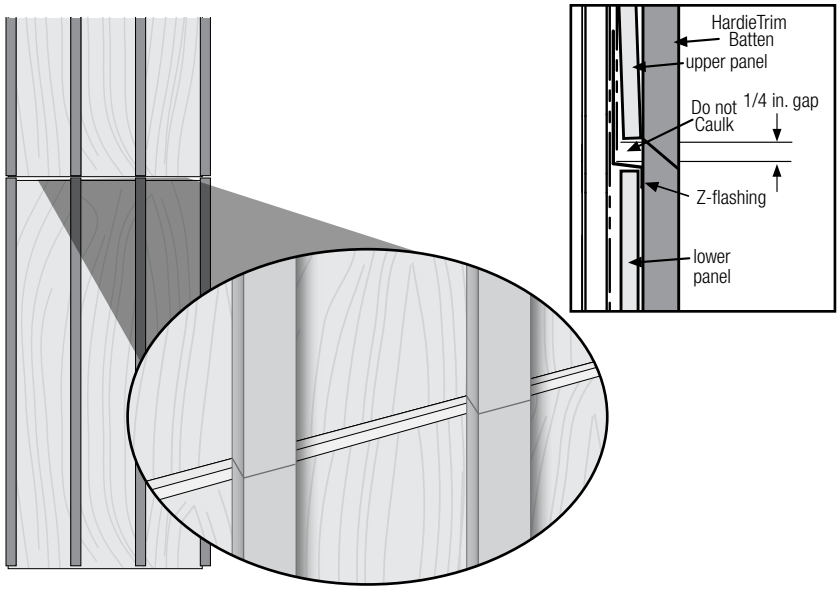
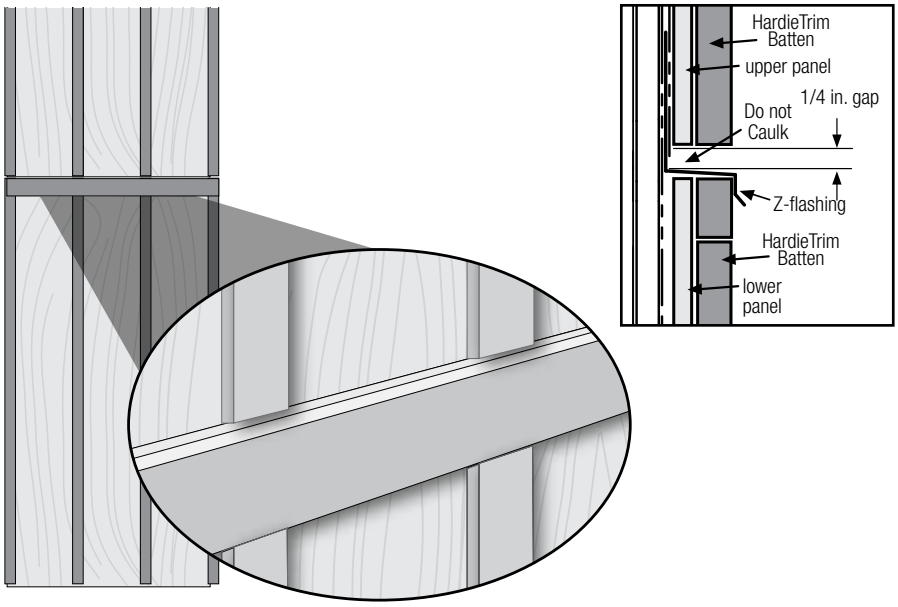


Figure 18



FASCIA

Do not use HardieTrim to replace any structural component

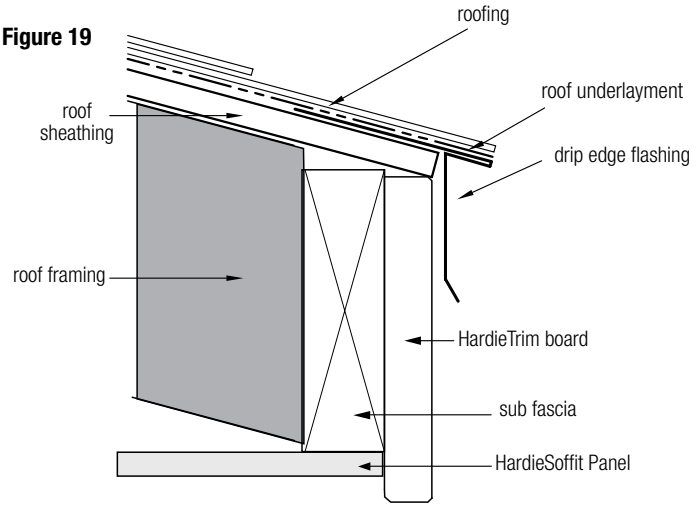
HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes.

Option 1

Over sub-fascia: (figure 19)

When installing HardieTrim boards over solid 2x sub-fascia use minimum 2 in., 16 gauge corrosion resistant finish nails. (*see fastener guide below*)

Figure 19



Gutters:

James Hardie recommends the use of rain gutters whenever possible.

Do not attach gutters directly to HardieTrim

Use gutter hangers that attach through the roof sheathing into a rafter tail or other structural member.

Soffit

When installing HardieSoffit additional framing/blocking may be needed depending on application. Refer to HardieSoffit installation instructions for guidance.

Option 2

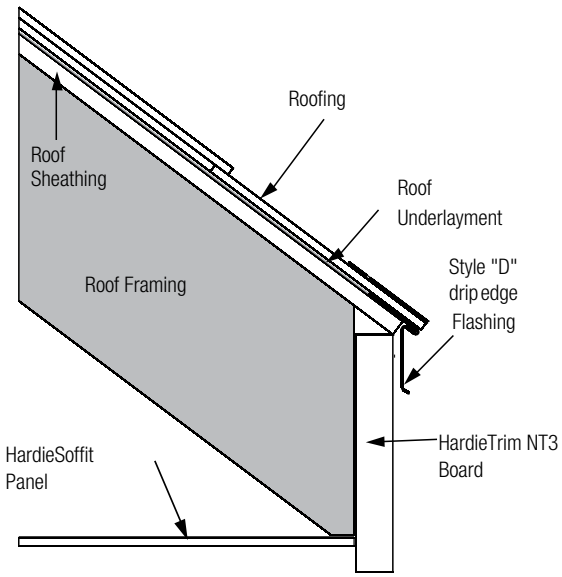
Direct to rafter tails: (figure 20)

When installing HardieTrim NT3 boards without the presence of a 2x sub-fascia, a minimum 8d siding corrosion resistant nails must be used to attach HardieTrim NT3 boards DO NOT use finish nails. (*refer to fastener guide below*).

Fascia Fastener Guide

	FASTENER SPACING	
HardieTrim Board	**Direct to Rafter (min 8d siding)**	**Over 2x Sub-fascia** (Minimum 2 in. 16 ga. Finish nails)
6 in.	2 nails every rafter spaced max 24 in. O.C.	2 nails spaced maximum 16 in. O.C.
8 in.	3 nails every rafter spaced max 24 in. O.C.	3 nails spaced maximum 16 in. O.C.
10 in.		4 nails spaced maximum 16 in. O.C.

Figure 20



HARDIETRIM® TABS

FASTENER REQUIREMENTS

For Corners, Band Boards, Windows, and Door Applications:
HardieTrim NT3 boards may be installed with HardieTrim™ Flat Tabs and HardieTrim™ Corner Tabs which provide concealed fastening. Only HardieTrim Flat and Corner Tabs can be used with HardieTrim NT3 boards to create a concealed fastening.

Step 1: Attach HardieTrim Flat Tabs to the back side of the trim using four, 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than 1/2 in. from trim edges using a pneumatic staple gun. (figures 21, 22)

Step 2: For wood frame construction, attach the trim to the building with minimum 2, 6d siding nails fastened through the HardieTrim Flat Tabs (figure 23). ET&F or equivalent fasteners may be used to attach the HardieTrim Flat Tabs to steel frame construction.

Fastener spacing will vary based on application. Refer to fastener table on page 9. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.)

For Fascia, Rake, and Frieze board Applications:
HardieTrim tabs cannot be used in fascia, rake, or frieze board applications. Follow Face nailing fastening specifications.

Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber: HardieTrim tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.
HardieTrim boards with ColorPlus Technology: Remove the laminate sheet as soon as possible after attaching the trim to the building.

Figure 21
Back view

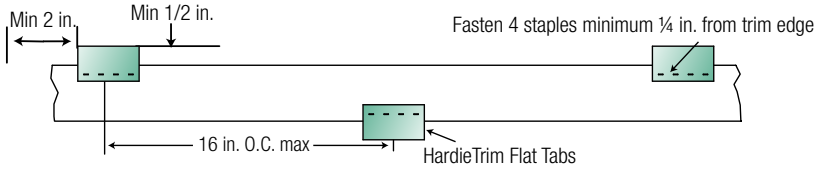


Figure 22
Front view

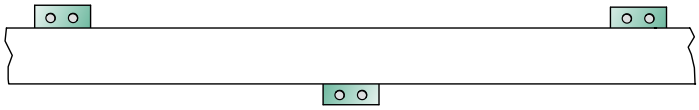
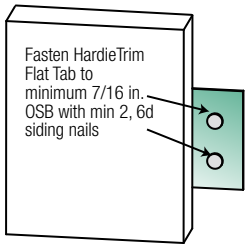


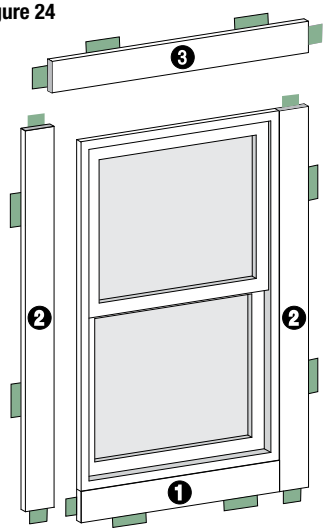
Figure 23

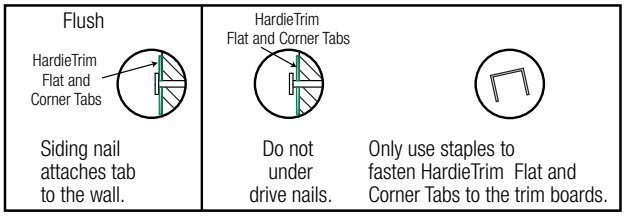


Trim Application for Windows, Doors & Other Openings

Trim the opening prior to the installation of the siding. Place a Flat Tab at the end of each trim board and one tab every 16 in. OC. Attach the trim boards and Flat Tabs around the opening as shown in figure 24. Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Figure 24





NOTE: Follow your window/door manufacturers installation instructions for caulking guidance between window and trim.

TRIMMING CORNERS

When using HardieTrim tabs prebuild outside corners off the wall.

- Attach HardieTrim Corner Tabs to the back side of the trim using eight(8) - 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples using a pneumatic stapler. Ensure the HardieTrim Corner Tabs are fastened tight and straight to the trim boards. (figure 25)
- For wood frame construction, attach trim to building using min. 6d siding nails fastened through the HardieTrim Corner Tabs attached to minimum 7/16 in. OSB *. (figure 26)
- Attach a HardieTrim Corner Tab 1 in. from each ends and every 20 in. O.C.
- TIP: Creating a jig for the work station is recommended to ensure corners are fastened securely and straight. (figure 27)

Figure 25

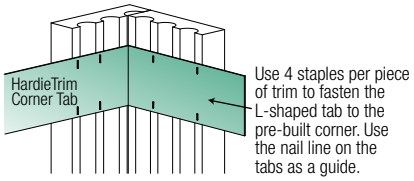


Figure 26

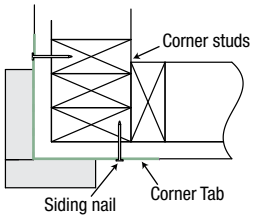
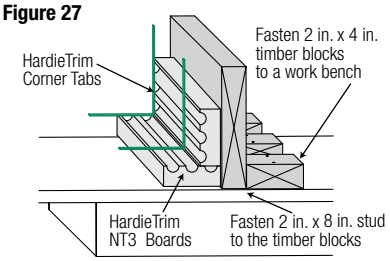


Figure 27



BAND BOARD

Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a HardieTrim Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. O.C. The HardieTrim Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (figures 21, 22). Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Trim Tab Fastener Table

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to trim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of tab into framing	Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16 in. OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through tab into framing		
	Minimum 20 gauge steel	One No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through tab into framing	For each piece of trim, install Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16 in. OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through tab into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) through tab into framing		

FINISHING

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.

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. 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.

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 coaters, 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

TR1510_P9/9 09/19

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.

RECOGNITION: HardieTrim boards may be installed as an equal alternative to conventional trim permitted for use in; 2006, 2009, 2012 & 2015 International Building Code, Section 1403, and the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, Section R703.

HardieTrim® Boards

EFFECTIVE SEPTEMBER 2019

These instructions are to be used for HardieTrim® HZ™ Boards ONLY and are **ONLY VALID** in the following states: WA, OR, CA, NV, UT, ID, CO, WY, MT, AZ, NM.

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

1. Position cutting station so that airflow blows dust away from the user and others near the cutting area.
2. Cut using one of the following methods:
   - a. 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.
   - b. Better: Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
   - c. 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.

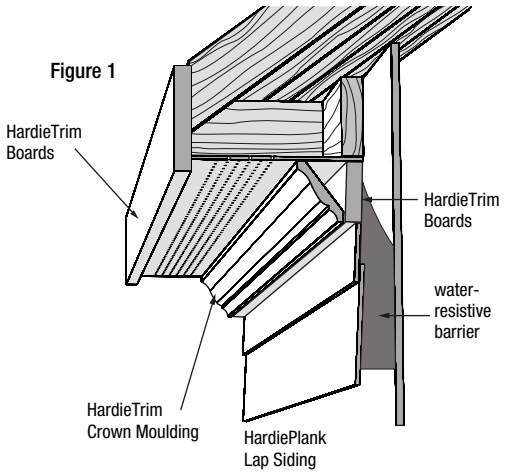
If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice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

HardieTrim® boards are decorative non-load bearing trim products.

Do not use HardieTrim boards to replace any structural component.

TABLE OF CONTENTS

Figure 1



GENERAL REQUIREMENTS

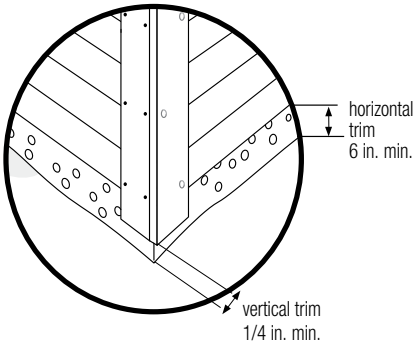
- Wood or steel must be provided for attaching HardieTrim boards.
- Follow all appicable codes when installing HardieTrim boards.
- DO NOT install HardieTrim boards, such that they may remain in contact with standing water.
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products.

JamesHardie™

FLASHING/CLEARANCE REQUIREMENTS NO-COVER

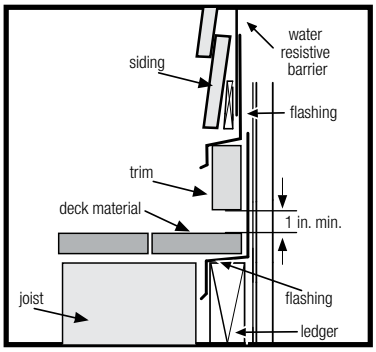
HardieTrim may be installed with a minimum 1/4 in. clearance when installed vertically to grade, decks, paths, steps, and driveways

Figure 2



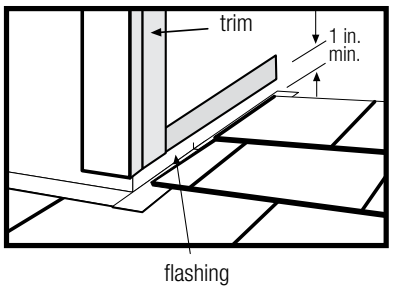
Maintain a minimum 1 in. horizontal clearance between James Hardie trim products and decks, paths, steps and driveways.

Figure 3



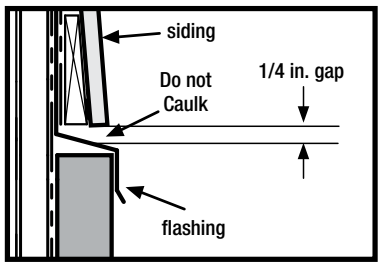
At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be installed per the roofing manufacturer's instructions. Provide a 1 in. clearance between the roofing and the bottom edge of the trim.

Figure 4



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

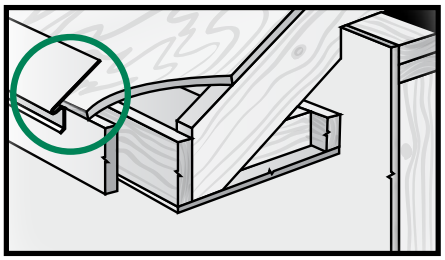
Figure 5



Drip Edge

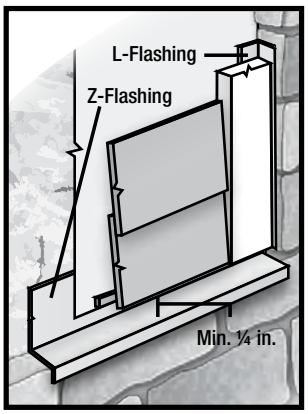
Figure 6

for fascia installation see page 6



Mortar/Masonry

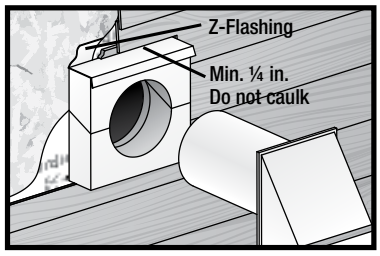
Figure 7



Block Penetration

(recommended in HZ10)

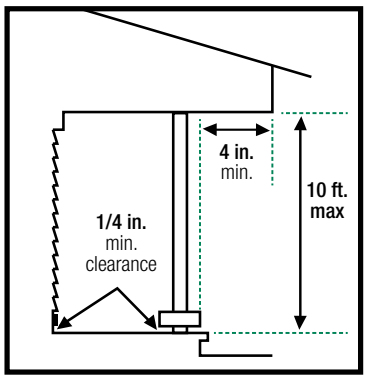
Figure 8



Valley/Shingle Extension

Figure 9

Figure 10



CLEARANCE REQUIREMENTS UNDER-COVER

Maintain a 1/4 in. clearance for HardieTrim boards installed under cover.
Under cover is defined as:

- Not more than 10 feet below a roof overhang, and
- Not less than 4 inches horizontally from the edge of the roof overhang

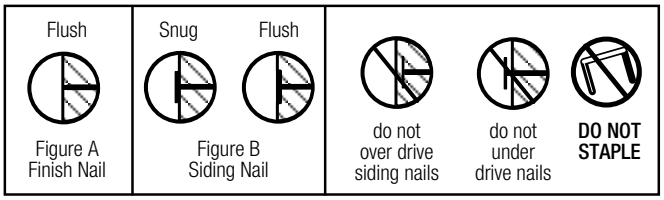
GENERAL FASTENING REQUIREMENTS

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."

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 trim. 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).



FACE NAILING REQUIREMENTS

Use 2 in. minimum 16 ga. finish nails to attach HardieTrim boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim boards to steel frame construction.

Fastening instructions are similar for all applications. When using finish nails, position nails no closer than 1/2 in. from the edges of the trim and for all other fasteners no closer than 3/4 in. Fasteners must be no closer than 1 in. from ends of trim and spaced a maximum of 16 in. O.C. Ensure trim is adequately fastened.

James Hardie recommends using stainless steel finish nails when installing HardieTrim products.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, and band boards)
4 in.	1 nail every 16 in. to attach boards together + 1 nail every 16 in. each board	2 nails every 16 in.	2 nails every 16 in.
6 in.	1 nail every 16 in. to attach boards together + 2 nails every 16 in. each board		
8 in.	-	3 nails every 16 in.	3 nails every 16 in.
12 in.	-	4 nails every 16 in.	3 nails every 16 in.

Use a 2 in. finish nail to fasten trim together. Longer finish nails may bend.

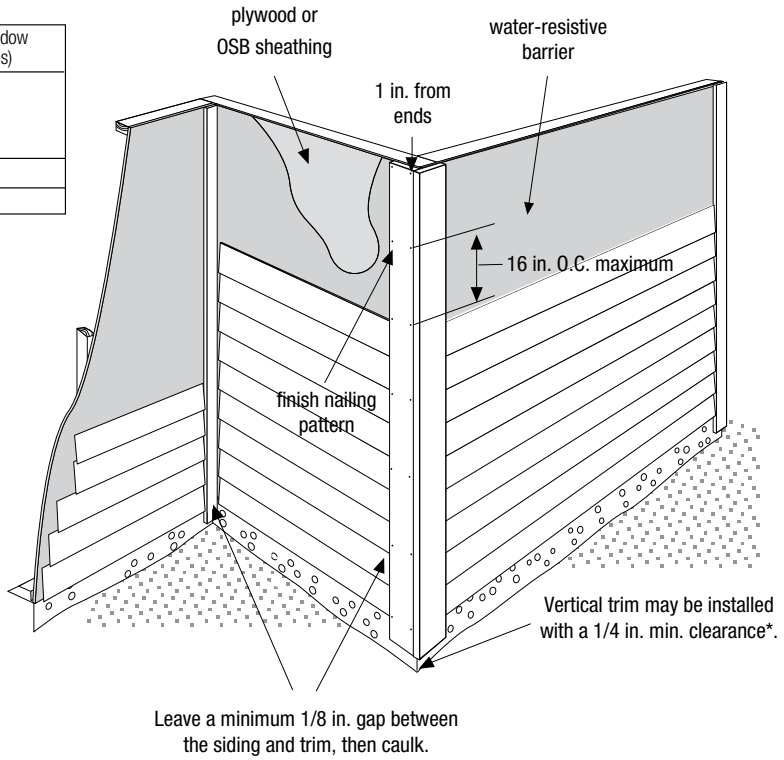


Figure 11

*Follow all applicable codes when installing HardieTrim boards

INSTALLATION

TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (figure 12).

Pre-Built Corners

Alternatively, corners can be pre-built off the wall using 2 in. finishing nails. Each side of the pre-built corner must be secured to the wall (figure 13).

Figure 12

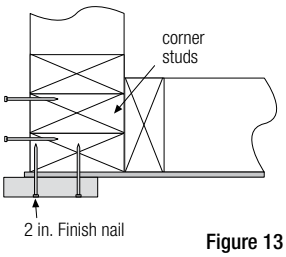
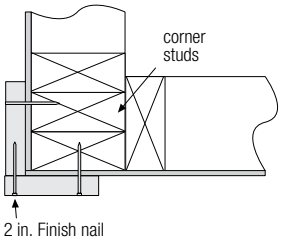


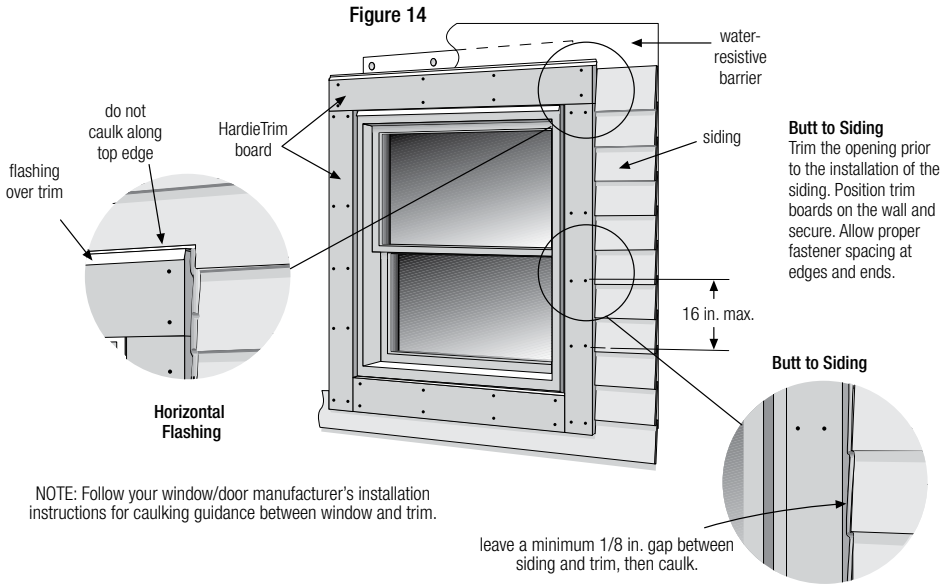
Figure 13



TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Flashing over trim is required per code for all installation methods. (figure 14)

Figure 14



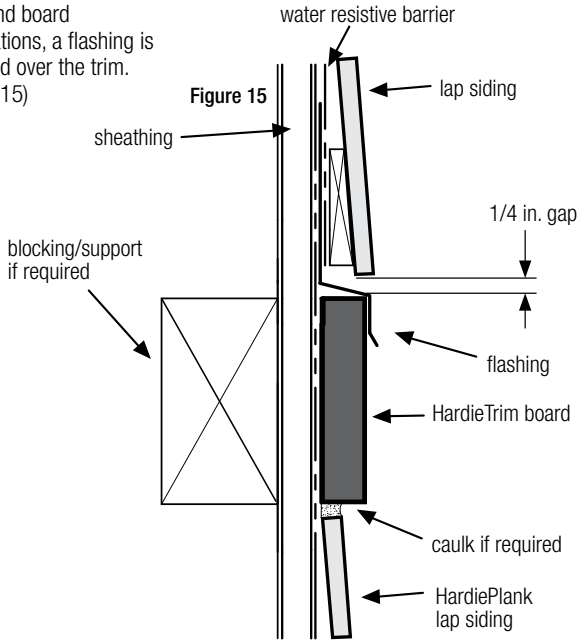
Butt to Siding
Trim the opening prior to the installation of the siding. Position trim boards on the wall and secure. Allow proper fastener spacing at edges and ends.

NOTE: Follow your window/door manufacturer's installation instructions for caulking guidance between window and trim.

BAND BOARD

For band board applications, a flashing is required over the trim. (figure 15)

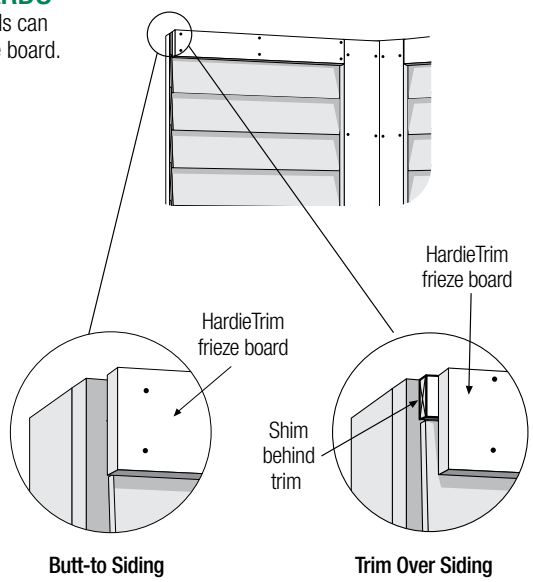
Figure 15



FRIEZE BOARDS

HardieTrim boards can be used as frieze board. (figure 16)

Figure 16



BATTEN BOARDS

HORIZONTAL PANEL JOINTS

At horizontal panel joints HardieTrim battens must be installed according to option 1 or 2 below. When installing HardieTrim Battens horizontally, they must be installed as a panel joint according to option 2.

Option 1

Figure 17 - No horizontal band board - Make a 22.5 - 45 degree weather cut, in the HardieTrim batten, just above the 1/4 in. clearance between panels.

Option 2

Figure 18 - Horizontal Band Board - Install a horizontal band board at the top of the bottom panel. Butt the lower batten to the band board and start the top batten at the bottom edge of the top panel. Maintain a 1/4 in. clearance above horizontal flashing.

Figure 17

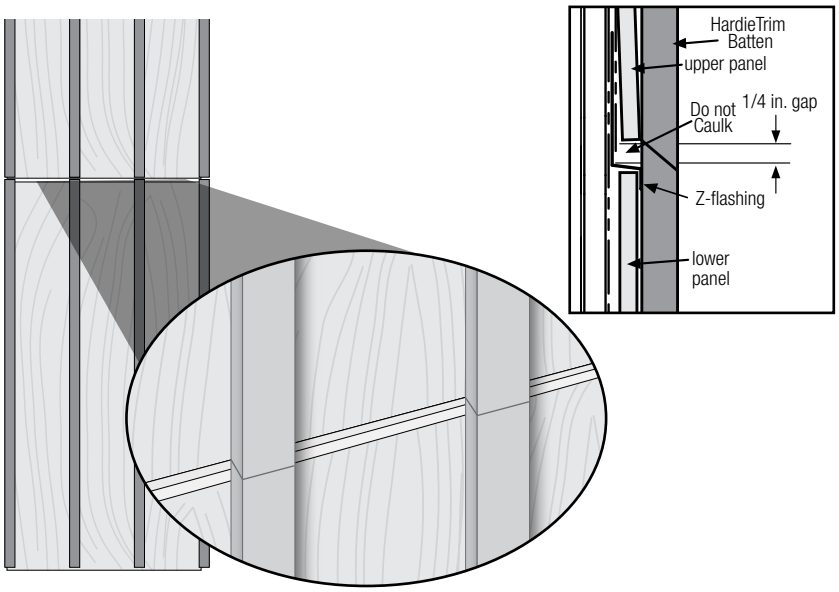
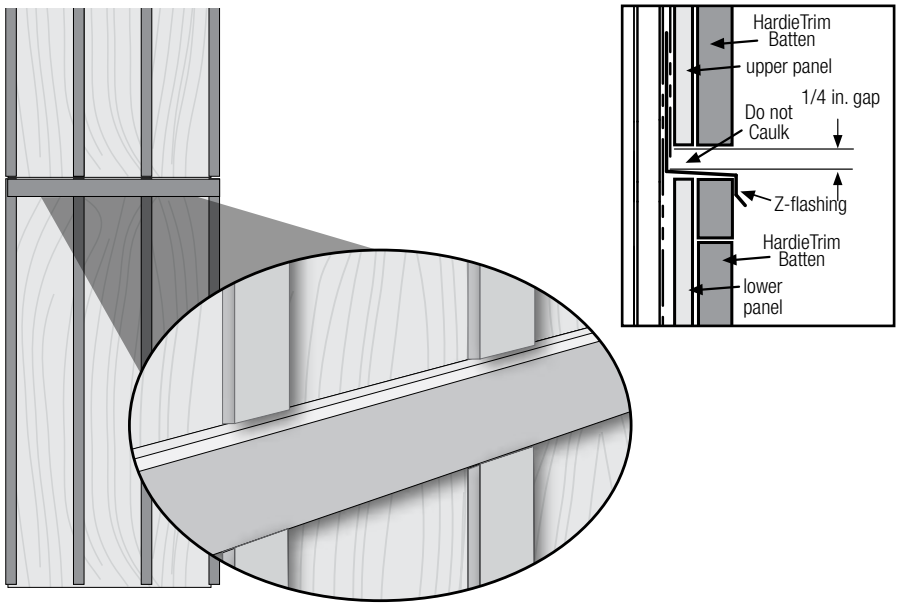


Figure 18



FASCIA

HardieTrim board is a decorative non-load bearing trim product. Do not use HardieTrim to replace any structural component.

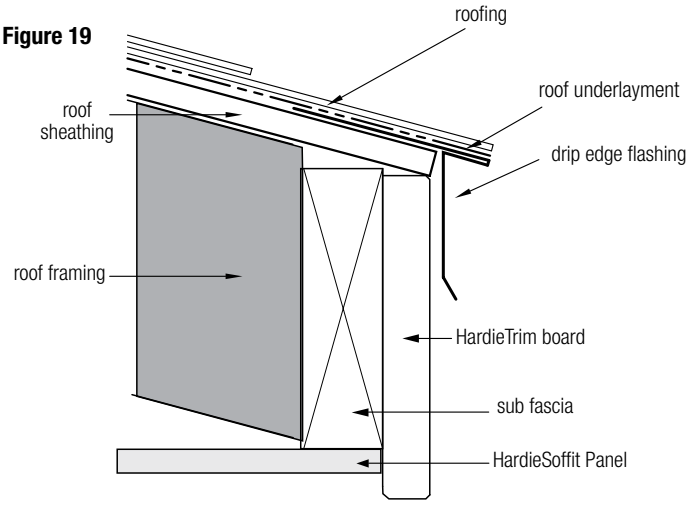
HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes.

Option 1

Over sub-fascia: (figure 19)

When installing HardieTrim boards over solid 2x sub-fascia use minimum 2 in., 16 gauge corrosion resistant finish nails. (*see fastener guide below*)

Figure 19



Gutters:

James Hardie recommends the use of rain gutters whenever possible.

Do not attach gutters directly to HardieTrim

Use gutter hangers that attach through the roof sheathing into a rafter tail or other structural member.

Soffit

When installing HardieSoffit additional framing/blocking may be needed depending on application. Refer to HardieSoffit installation instructions for guidance.

Option 2

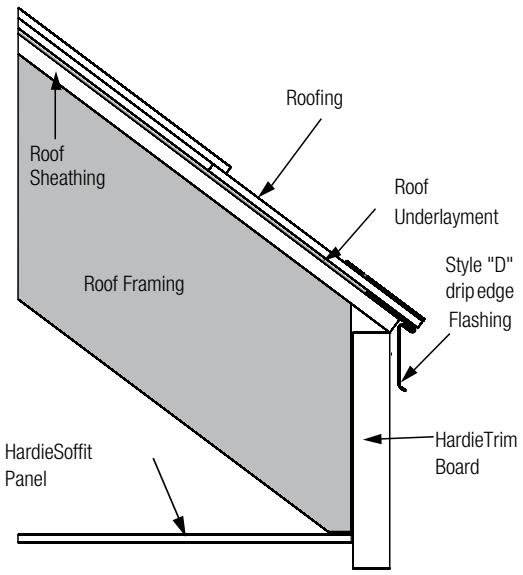
Direct to rafter tails: (figure 20)

When installing HardieTrim boards without the presence of a 2x sub-fascia, a minimum 8d siding corrosion resistant nails must be used to attach HardieTrim boards DO NOT use finish nails. (*refer to fastener guide below*).

Fascia Fastener Guide

	FASTENER SPACING	
HardieTrim Board	**Direct to Rafter (min 8d siding)**	**Over 2x Sub-fascia** (Minimum 2 in. 16 ga. Finish nails)
6 in.	2 nails every rafter spaced max 24 in. O.C.	2 nails spaced maximum 16 in. O.C.
8 in.	3 nails every rafter spaced max 24 in. O.C.	3 nails spaced maximum 16 in. O.C.
10 in.		4 nails spaced maximum 16 in. O.C.

Figure 20



HARDIETRIM® TABS

FASTENER REQUIREMENTS

For Corners, Band Boards, Windows, and Door Applications:
HardieTrim boards may be installed with HardieTrim™ Flat Tabs and HardieTrim™ Corner Tabs which provide concealed fastening. Only HardieTrim Flat and Corner Tabs can be used with HardieTrim boards to create a concealed fastening.

Step 1: Attach HardieTrim Flat Tabs to the back side of the trim using four, 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than 1/2 in. from trim edges using a pneumatic staple gun. (figures 21, 22)

Step 2: For wood frame construction, attach the trim to the building with minimum 2, 6d siding nails fastened through the HardieTrim Flat Tabs (figure 23). ET&F or equivalent fasteners may be used to attach the HardieTrim Flat Tabs to steel frame construction.

Fastener spacing will vary based on application. Refer to fastener table on page 9. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.)

For Fascia, Rake, and Frieze board Applications:
HardieTrim tabs cannot be used in fascia, rake, or frieze board applications. Follow Face nailing fastening specifications.

Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber: HardieTrim tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.
HardieTrim boards with ColorPlus Technology: Remove the laminate sheet as soon as possible after attaching the trim to the building.

Figure 21
Back view

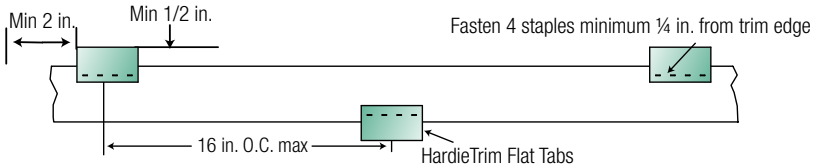


Figure 22
Front view

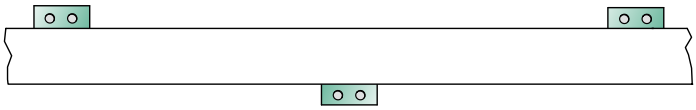


Figure 23

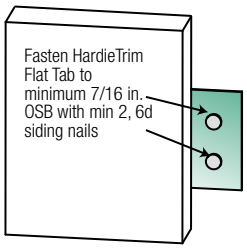
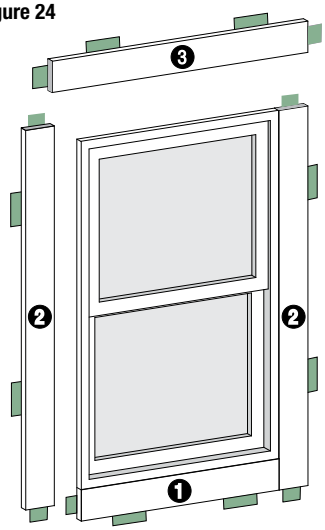
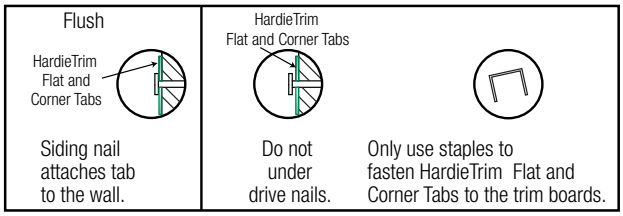


Figure 24



Trim Application for Windows, Doors & Other Openings
Trim the opening prior to the installation of the siding. Place a Flat Tab at the end of each trim board and one tab every 16 in. OC. Attach the trim boards and Flat Tabs around the opening as shown in figure 24. Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.



NOTE: Follow your window/door manufacturers installation instructions for caulking guidance between window and trim.

TRIMMING CORNERS

When using HardieTrim tabs prebuild outside corners off the wall.

- Attach HardieTrim Corner Tabs to the back side of the trim using eight(8) - 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples using a pneumatic stapler. Ensure the HardieTrim Corner Tabs are fastened tight and straight to the trim boards. (figure 25)
- For wood frame construction, attach trim to building using min. 6d siding nails fastened through the HardieTrim Corner Tabs attached to minimum 7/16 in. OSB *. (figure 26)
- Attach a HardieTrim Corner Tab 1 in. from each ends and every 20 in. O.C.
- TIP: Creating a jig for the work station is recommended to ensure corners are fastened securely and straight. (figure 27)

Figure 25

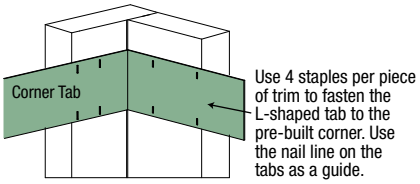


Figure 26

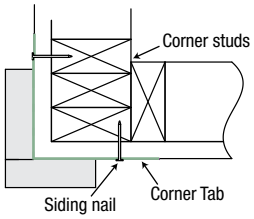
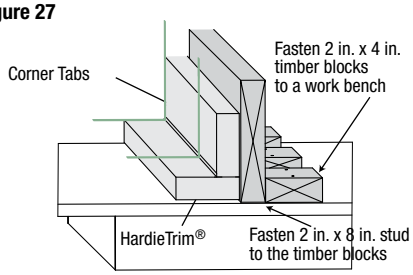


Figure 27



BAND BOARD

Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a HardieTrim Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. O.C. The HardieTrim Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (figures 21, 22). Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Trim Tab Fastener Table

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to trim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of tab into framing	Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16 in. OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through tab into framing		
	Minimum 20 gauge steel	One No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through tab into framing	For each piece of trim, install Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16 in. OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through tab into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) through tab into framing		

FINISHING

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.

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. 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.

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 coaters, 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

TR1509_P9/9 09/19

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.

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 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 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 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.

KICHLER
Style to live by

Project	
Type	
Ordering #	
Comments	

1 Light Outdoor Wall Lantern - Black

9650BK (Black (Painted))

Product Description:

With its timeless colonial profile, the Madison is the perfect line of outdoor fixtures for those looking to embellish classic sophistication. Because it is made from cast aluminum and comes in an extensive amount of different finishes, this Madison 1-light wall lantern can go with any home décor while being able to withstand the elements. It features a Black finish with clear beveled glass panels. The Madison wall lantern uses a 100-watt (max.) bulb, measures 8" wide by 13" high, and is U.L. listed for wet location.

Available Finishes
Black (Painted)
Tannery Bronze
White

Technical Information

Lamp Included:	Not Included
Weight:	4LBS
Glass Description:	CLEAR BEVELED GLASS
Extension:	8.5
Safety Rated:	Wet
HCWO:	4.75
Base Backplate:	4. 1/2 X 5 7/8
CFL Bulb Type:	HYBRID (23-30W)
Dual Mount:	No
Light Source:	Incandescent
Socket Base:	Medium
Number of Bulbs:	1
Lamp Type:	A19
Max Watt:	100W
Width:	8"
Height:	14.75"
Finish:	Black (Painted)

LANDMARK® TL

Triple Laminate
Luxury Roofing
Shingles

Landmark TL, shown in Shenandoah

CertainTeed
SAINT-GOBAIN

NOTE: Due to limitations of printing reproduction, CertainTeed can not guarantee the identical match of the actual product color to the graphic representations throughout this publication.

Shown in Shenandoah

Your Home Deserves the Triple Crown.

Three laminated layers of the industry's most durable materials, providing a dramatically thick roofing product styled with the classic appeal of wood shakes.

Landmark® TL is the triple performance shake that has the hand-split look of cedar and the durable dimension of tri-laminate technology.

The New American Landscape

See it for yourself. The thickness that gives Landmark TL unmatched durability also ensures a stunning natural appearance. Like a real wood shake, it's truly dimensional in shape, with distinct butted edges and long-lasting curb appeal.

Triple-play Construction

TL is triple-layer, the secret behind beauty with performance. Landmark TL features three laminated layers of the industry's strongest materials to produce a thick, dimensional shake that endures, commanding attention wherever it goes.

The Look of Wood (Minus the Worry)

Landmark TL costs a fraction of natural wood shakes, but the benefits don't end there. Unlike wood, it won't rot or decay, and it offers excellent wind and fire resistance. Landmark TL also features the ultimate in stain protection, CertainTeed's StreakFighter® technology, to repel algae before it can take hold and spread. StreakFighter's granular blend includes naturally algae-resistant copper to combat the ugly black streaking caused by algae and help your roof maintain its beauty for years to come.

STREAKFighter®

Landmark TL. Don't just choose it for the triple-layer durability, originality, or even the cost advantages. Choose it for the power of its position... high above all the rest.

The Ultimate Power Shake

- Three-piece laminated fiber glass construction
- Rustic appearance of hand-split wood shakes
- 305 lbs. per square

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:
- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:
- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:
- UL certified to meet ASTM D3462
- CSA standard A123.5

Wind Driven Rain Resistance:
- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.

Quality Standards:
- ICC-ES-ESR-1389 & ESR-3537

WARRANTY
- Lifetime limited transferable warranty against manufacturing defects on residential applications
- 50-year limited transferable warranty against manufacturing defects on group-owned or commercial applications
- 15-year StreakFighter® algae-resistance warranty (where available)
- 10-year SureStart™ protection
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required

See actual warranty for specific details and limitations.

LANDMARK® TL COLOR PALETTE


Aged Bark


Country Gray


Max Def Black Walnut


Moiré Black


Old Overton

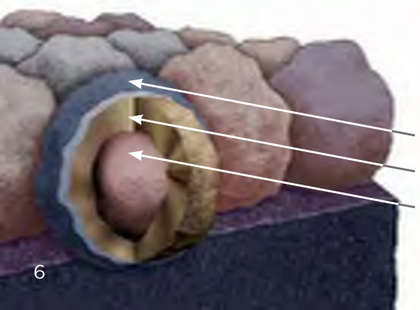

Shenandoah

Shown in Country Gray

The Ultimate in Stain Protection.

STREAKFighter® Algae-Resistant Shingle Technology

Those streaks you see on other roofs in your neighborhood? That's algae, and it's a common eyesore on roofing throughout North America. CertainTeed's StreakFighter technology uses the power of science to repel algae before it can take hold and spread. StreakFighter's granular blend includes naturally algae-resistant copper, helping your roof maintain its curb appeal and look beautiful for years to come.



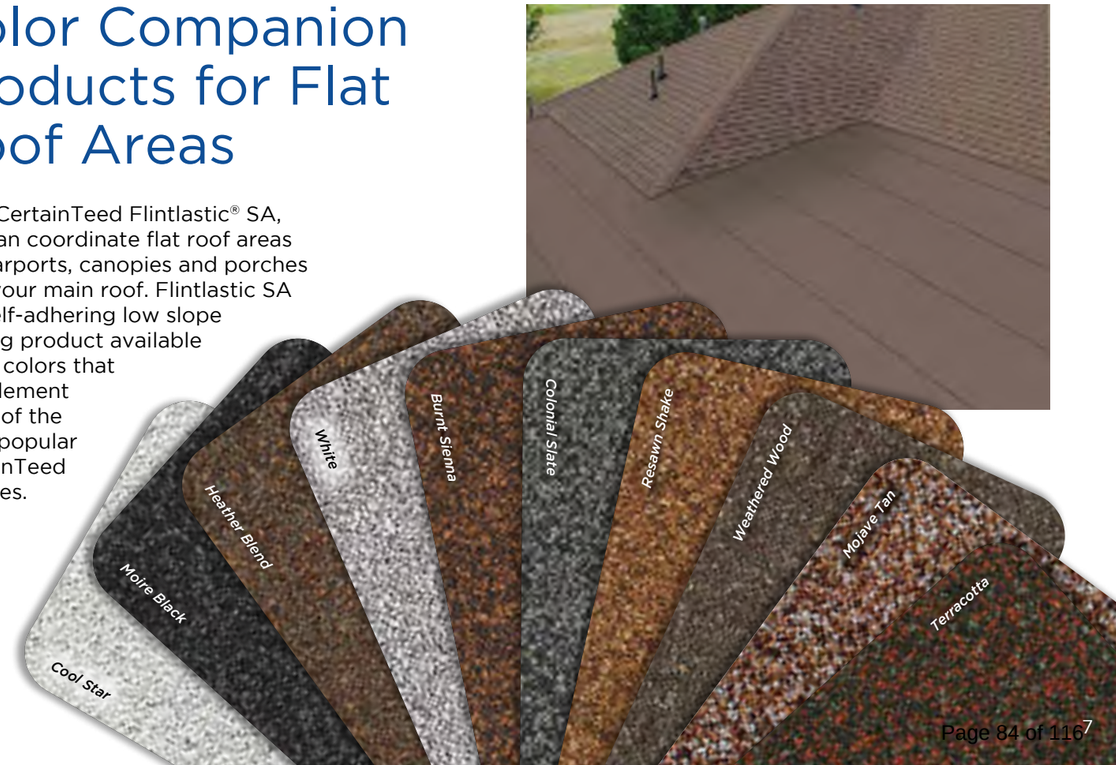
Granule with StreakFighter Technology

Add a Little Accent to Your Roof.

For a finishing touch to cap hips and ridges, use Cedar Crest®—available in colors to coordinate with your Landmark TL shingles. CertainTeed also offers other accessory products for capping hips and ridges— available in colors to match your Landmark TL shingles. CertainTeed Swiftstart is recommended to be used as the starter course.

Color Companion Products for Flat Roof Areas

With CertainTeed Flintlastic® SA, you can coordinate flat roof areas like carports, canopies and porches with your main roof. Flintlastic SA is a self-adhering low slope roofing product available in ten colors that complement some of the most popular CertainTeed shingles.



Integrity Roof System™

A COMPLETE APPROACH TO LONG LASTING BEAUTY AND PERFORMANCE

With as much care as you take in selecting the right contractor, choosing the right roof system is equally as important. A CertainTeed Integrity Roof System combines key elements that help ensure you have a well-built roof for long-lasting performance.

1. Waterproofing Underlayment

The first step in your defense against the elements. Self-adhering underlayment is installed at vulnerable areas of your roof to help prevent leaks from wind-driven rain and ice dams.

2. Water-Resistant Underlayment

Provides a protective layer over the roof deck and acts as a secondary barrier against leaks.

3. Starter Shingles

Starter Shingles are the first course of shingles that are installed and designed to work in tandem with the roof shingles above for optimal shingle sealing and performance.

4. Shingles

Choose from a variety of Good-Better-Best styles to complement any roof design and fit your budget.

5. Hip & Ridge Caps

Available in numerous profiles, these accessories are used on the roof's hip and ridge lines for a distinctive finishing touch to your new roof.

6. Ventilation

A roof that breathes is shown to perform better and last longer. Ridge Vents, in combination with Intake Vents, allow air to flow on the underside of your roof deck, keeping the attic cooler in the summer and drier in the winter.

SAINT-GOBAIN

learn more at:
certainteed.com/roofing

Landmark® TL available in areas shown

CertainTeed Corporation
ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • GYPSUM • CEILINGS • INSULATION
20 Moores Road Malvern, PA 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com

Document Navigation Tips:

Items listed in the table of contents above are active links that will take you to the corresponding page.

The Pella logo on each page is a link back to this table of contents.

Bookmarks are also included in this PDF document and are available as an additional navigation option.

Supporting documents for this product:

Test Reports:

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Dual.pdf

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Triple.pdf

CSI Specs (readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/08213.rtf

Detailed Product Description (readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-IS_DPD.rtf

Size Tables (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood-LS/LSCISE_D.dwg

CAD cross sections (requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood-LS/LS-IS_XSEC_D.dwg

3D & BIM (requires appropriate software to read and use):

https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Door-In-Swing-Pella-Lifestyle_Series.zip

Sketchup (requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP_LifestyleSeries_In-Swing_Door.zip

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf

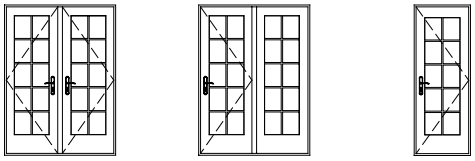
Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf

Size and Performance Data

	Dual-Pane Glazing	Triple-Pane Glazing
Sizes		
Standard door sizes	●	●
Standard sidelight sizes	—	●
Standard transom sizes - Fixed Frame Direct Set	●	●
Special sizes available	—	●
Performance[1]		
Meets or Exceeds AAMA/WDMA Ratings	LC50 Hallmark Certified	LC55 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)	0.15	0.10
Water Resistance	7.5 psf	8.36 psf
Design Pressure	50 psf	55 psf
Other Performance Criteria		
Forced Entry Resistance Level (Minimum Security Grade)[2]	40	40

Double-Swing	Single-Swing Double	Single-Swing
active/inactive	active/fixed	active or fixed



Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested[3]	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness (ML)		
Lifestyle Series In-Swing Patio Door	**Active-Fixed – Dual-Pane Glass**						
	71-1/4"x 81-1/4"	13/16"	3mm	3mm	—	30	24
	71-1/4"x 81-1/4"	13/16"	5mm	3mm	—	32	28
	Active-Inactive – Triple-Pane Glass						
	71-1/4"x 81-1/2"	11/16"	3mm	3mm	3mm	34	28
	71-1/4"x 81-1/2"	11/16"	5mm	3mm	4mm	35	31
	71-1/4"x 81-1/2" with blind	11/16"	5mm	3mm	4mm	35	31
	71-1/4"x 81-1/2" with shade	11/16"	5mm	3mm	4mm	35	31

(1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values. Values shown are for standard and special sizes; Custom sizes may not have the same values. Contact your local sales representative for complete information.

(2) The higher the level, the greater the product's ability to resist forced entry.

(3) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.

Features and Options

Standard	Options / Upgrades
Glazing	
Glazing Type	
Dual-Pane Glazing	Triple-Pane Glazing with Clear Moveable Light
Insulated Glass Options/Low-E Types	
Advanced Low-E	SunDefense™ Low-E
	SunDefense+ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	NaturalSun+ Low-E
Glass Performance Package Options	
Base Package (Dual-Pane)	Performance Package - Triple-Pane
	Sound Control Package - Triple-Pane with STC glass
	Energy Efficiency Package - Triple-Pane with AdvancedComfort Low-E
	Ultimate Performance Package - Triple-Pane with AdvancedComfort Low-E and STC glass
Additional Glass Options	
Annealed Glass	STC Glazing Options
	Tempered Glass
	Obscure Glass[1]
Gas Fill/High Altitude	
Argon	High altitude (Air-filled only)
Exterior	
EnduraClad® Cladding Colors[1]	
4 Standard colors	8 Feature Colors
Sill Finish[2]	
Black	Mill
Interior[1]	
Unfinished wood	Factory primed, Factory prefinished paint, Factory prefinished stain
Wood Types	
Pine	—
Hardware	
Champagne, White, Brown or Matte Black	Satin Brass, Satin Nickel
Locking System	
Multi-Point	—
Key lock	—
Grilles	
Simulated-Divided-Light with Optional Spacer (Dual-Pane glazing)	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Simulated-Divided-Light with Grilles-Between-the-Glass (Triple-Pane glazing)	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Grilles-Between-the-Glass	
—	Traditional, Prairie, Top Row, Cross, Custom - Equally Divided
Integrated Between-the-Glass Options (Triple-Pane Only)[1]	
Cellular Fabric Shades	
—	Raise-and-lower bottom-up
Slimshade® Blinds	
—	Raise-and-lower bottom-up
Screens	
—	InView™ screens

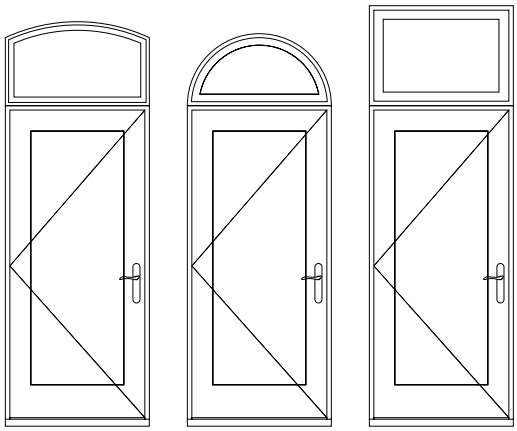
(—) = Not Available
(1) Contact your local Pella sales representative for current designs and color options. Cellular fabric shades and Slimshade blinds are not available in transom units
(2) ADA sill available in mill finish only.

Combination Assemblies

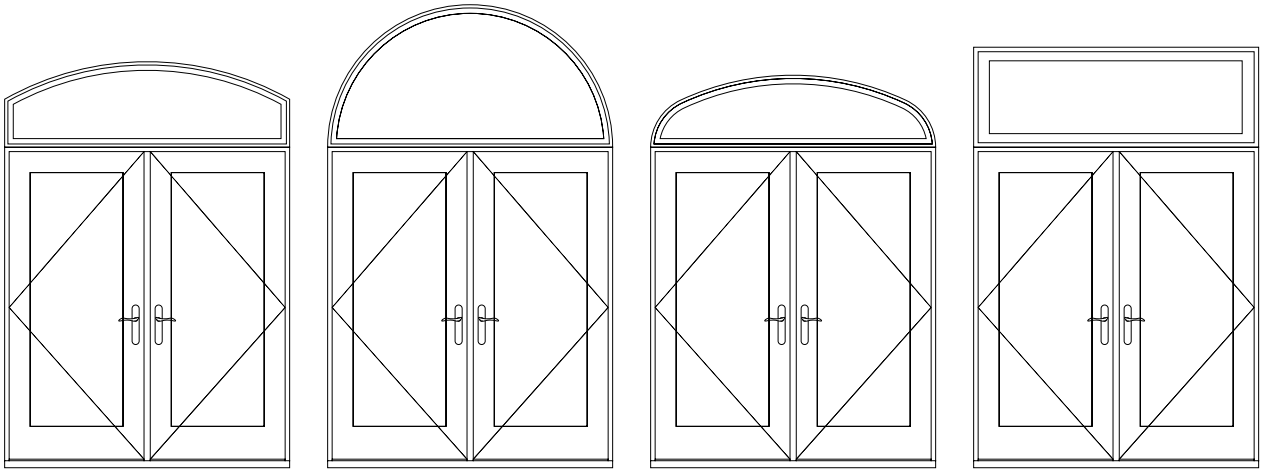
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

Pella door combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Refer to Combinations section for requirements and limitations

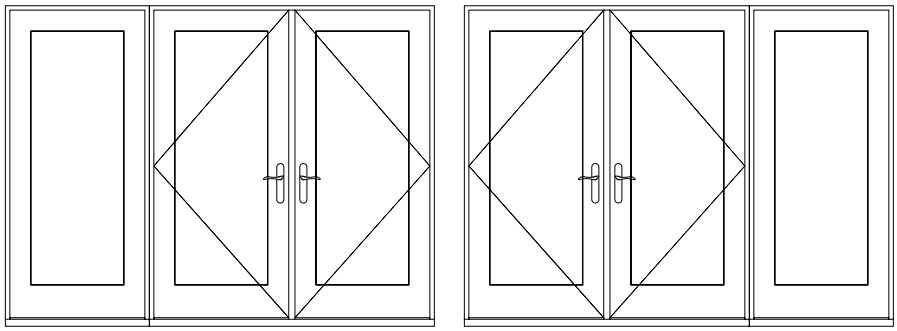
Contact your local Pella sales representative for more information.



Arch Head over Single | Half Circle over Single | Transom over Single



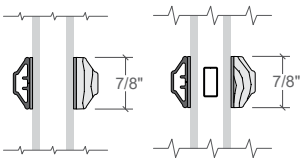
Arch Head over Double | Half Circle over Double | Elliptical over Double | Transom over Double



Double with Single Left | Double with Single Right

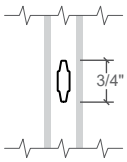
Grille Profiles - Dual-Pane

7/8" Simulated Divided Lights



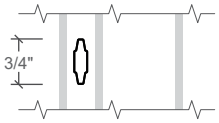
with Optional Spacer

3/4" Grilles-Between-the-Glass

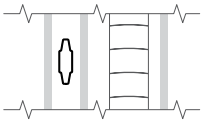


Grille Profiles - Triple-Pane

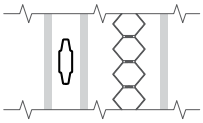
Contoured Aluminum
3/4" Grilles-Between-the-Glass



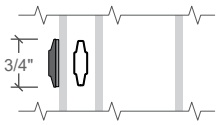
Slimshade Blinds

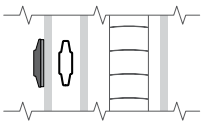


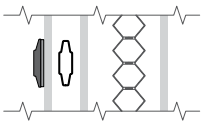
Cellular Fabric Shade



3/4" Simulated Divide Lights



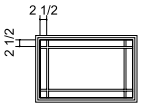




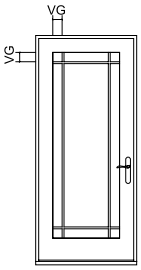
Contact your local Pella sales representative for current availability.

Grille Patterns

Prairie Lite Patterns

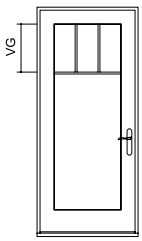


Transom

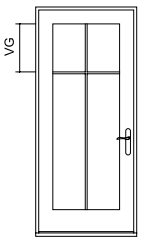


9-LITE

Other Available Patterns



Top Row



Cross

Prairie
– Standard corner lite dimension for Prairie patterns = 3-1/2" VG.

Top Row
– Standard visible glass to separator bar = 14".

Cross
– Standard visible glass to separator bar = one-quarter of total visible glass height.

For traditional patterns, see size tables.

VG = Visible Glass
Lite dimensions noted can vary.
Custom configurations are also available, for details contact your local Pella sales representative.

Standard Size Tables - Dual-Pane

Transoms

SINGLE DOOR

Opening	(781) (762) 2' 6 3/4"	(870) (851) 2' 10 1/4"	(933) (914) 3' 0 3/4"	(981) (962) 3' 2 5/8"
Frame	2' 6"	2' 9 1/2"	3' 0"	3' 1 7/8"
(375) (356) 1' 2 3/4" — 1' 2"	3014	3414	3614	3814
(451) (432) 1' 5 3/4" — 1' 5"	3017	3417	3617	3817
(654) (635) 2' 1 3/4" — 2' 1"	3025	3425	3625	3825

DOUBLE DOOR

Opening	(1 524) (1 505) 5' 0"	(1 702) (1 682) 5' 7"	(1 829) (1 810) 6' 0"	(1 924) (1 905) 6' 3 3/4"
Frame	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(375) (356) 1' 2 3/4" — 1' 2"	6014	6714	7214 T	7514 T
(451) (432) 1' 5 3/4" — 1' 5"	6017	6717	7217	7517
(654) (635) 2' 1 3/4" — 2' 1"	6025	6725	7225	7525

6' 7" Single Doors

FIXED VENT

Opening	(781) (762) 2' 6 3/4"	(870) (851) 2' 10 1/4"	(933) (914) 3' 0 3/4"	(981) (962) 3' 2 5/8"
Frame	2' 6"	2' 9 1/2"	3' 0"	3' 1 7/8"
(2 032) (2 019) 6' 8" — 6' 7 1/2"	3080	3480	3680	3880

Single-Swing Doors

FIXED-ACTIVE

Opening	(1 524) (1 505) 5' 0"	(1 702) (1 682) 5' 7"	(1 829) (1 810) 6' 0"	(1 924) (1 905) 6' 3 3/4"
Frame	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 032) (2 019) 6' 8" — 6' 7 1/2"	6080	6780	7280	7580

Double-Swing Doors

ACTIVE-INACTIVE

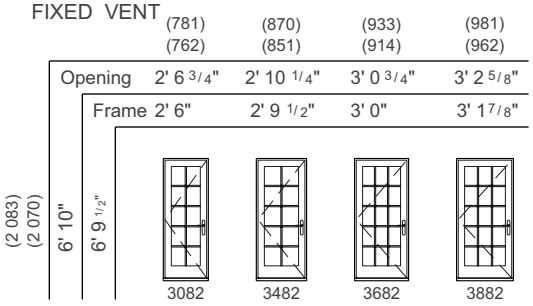
Opening	(1 524) (1 505) 5' 0"	(1 702) (1 682) 5' 7"	(1 829) (1 810) 6' 0"	(1 924) (1 905) 6' 3 3/4"
Frame	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 032) (2 019) 6' 8" — 6' 7 1/2"	6080	6780	7280	7580

Not to scale.
T = Tempered glass is standard.

Standard Size Tables - Dual-Pane

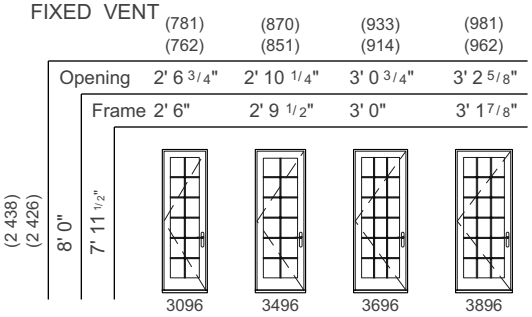
6' 10" Single Door

FIXED VENT



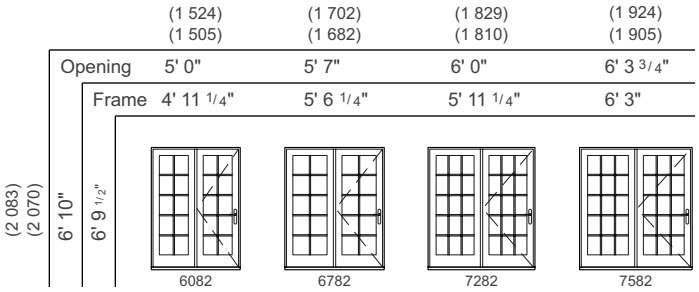
8' 0" Single Door

FIXED VENT



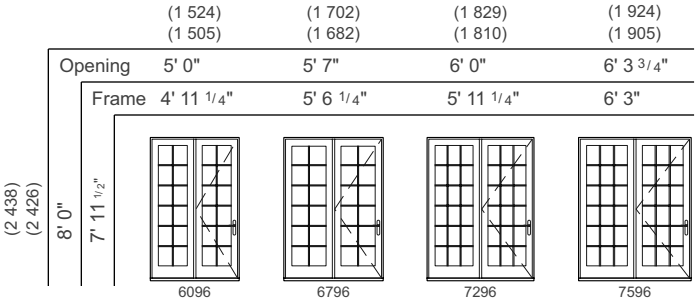
Single-Swing Doors

FIXED-ACTIVE



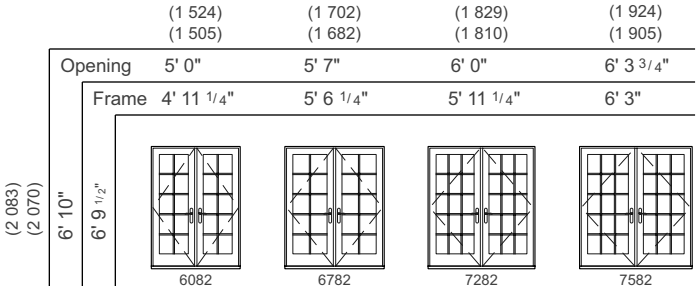
Single-Swing Doors

FIXED-ACTIVE



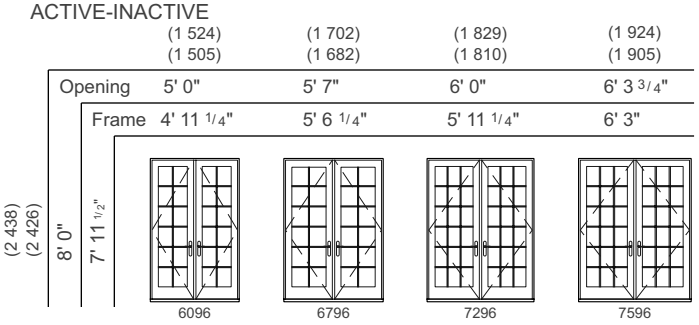
Double-Swing Doors

ACTIVE-INACTIVE



Double-Swing Doors

ACTIVE-INACTIVE



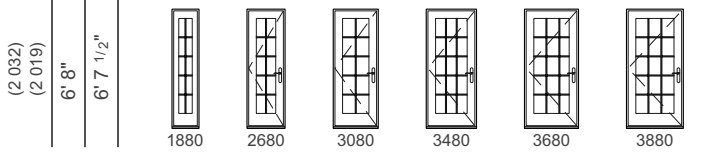
Not to scale.

Standard Size Tables - Triple-Pane

6' 7" Single Doors and Sidelight

FIXED VENT

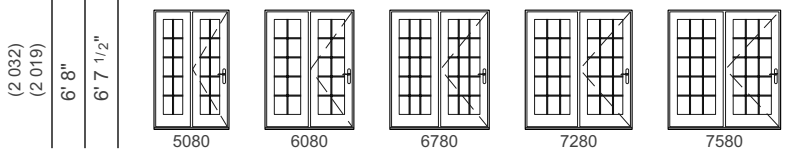
	(476) (457)	(664) (645)	(781) (762)	(870) (851)	(933) (914)	(981) (962)
Opening	1' 6 3/4"	2' 2 1/8"	2' 6 3/4"	2' 10 1/4"	3' 0 3/4"	3' 2 5/8"
Frame	1' 6"	2' 1 3/8"	2' 6"	2' 9 1/2"	3' 0"	3' 1 7/8"
(2 032) (2 019) 6' 8" / 6' 7 1/2"	1880	2680	3080	3480	3680	3880



Single-Swing Doors

FIXED-ACTIVE

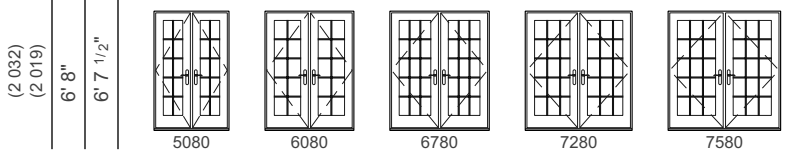
	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 032) (2 019) 6' 8" / 6' 7 1/2"	5080	6080	6780	7280	7580



Double-Swing Doors

ACTIVE-INACTIVE

	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 032) (2 019) 6' 8" / 6' 7 1/2"	5080	6080	6780	7280	7580



Not to scale.

Standard Size Tables - Triple-Pane

6' 10" Single Door

FIXED VENT

	(476) (457)	(664) (645)	(781) (762)	(870) (851)	(933) (914)	(981) (962)
Opening	1' 6 3/4"	2' 2 1/8"	2' 6 3/4"	2' 10 1/4"	3' 0 3/4"	3' 2 5/8"
Frame	1' 6"	2' 1 3/8"	2' 6"	2' 9 1/2"	3' 0"	3' 1 7/8"
(2 083) (2 070) 6' 10" 6' 9 1/2"	1882	2682	3082	3482	3682	3882

Single-Swing Doors

FIXED-ACTIVE

	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 083) (2 070) 6' 10" 6' 9 1/2"	5082	6082	6782	7282	7582

Double-Swing Doors

ACTIVE-INACTIVE

	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 083) (2 070) 6' 10" 6' 9 1/2"	5082	6082	6782	7282	7582

Not to scale.

Standard Size Tables - Triple-Pane

8' 0" Single Door

FIXED VENT

	(476) (457)	(664) (645)	(781) (762)	(870) (851)	(933) (914)	(981) (962)
Opening	1' 6 3/4"	2' 2 1/8"	2' 6 3/4"	2' 10 1/4"	3' 0 3/4"	3' 2 5/8"
Frame	1' 6"	2' 1 3/8"	2' 6"	2' 9 1/2"	3' 0"	3' 1 7/8"
(2 438) (2 426) 8' 0" 7' 11 1/2"	1896	2696	3096	3496	3696	3896

Single-Swing Doors

FIXED-ACTIVE

	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 438) (2 426) 8' 0" 7' 11 1/2"	5096	6096	6796	7296	7596

Double-Swing Doors

ACTIVE-INACTIVE

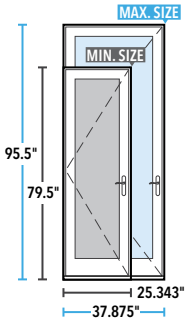
	(1 289) (1 270)	(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening	4' 2 3/4"	5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame	4' 2"	4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 438) (2 426) 8' 0" 7' 11 1/2"	5096	6096	6796	7296	7596

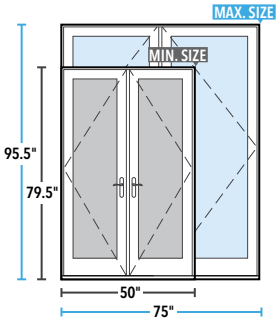
Not to scale.

Special Sizes and Dimensions

In-Swing Door Special Size Frame Dimensions*

	Minimum	Maximum
Single Door	2' 1-11/32" W x 6' 7-1/2" H (25-11/32" x 79-1/2") (644 x 2 019)	3' 1" W x 7' 11" H (37-7/8" x 95-1/2") (962 x 2 426)
Double Door	4' 2" W x 6' 7-1/2" H (50" x 79-1/2") (1 270 x 2 019)	6' 3" W x 7' 11" H (75" x 95-1/2") (1 905 x 2 426)
Transom	2' 2" W x 1' 2" H (26" x 14") (660 x 356)	6' 3" W x 2' 1" H (75" x 25") (1 905 x 635)
Sidelight	1' 6" W x 6' 7-1/2" H (18" x 79-1/2") (457 x 2 019)	1' 6" W x 7' 11" H (18" x 95-1/2") (457 x 2 426)





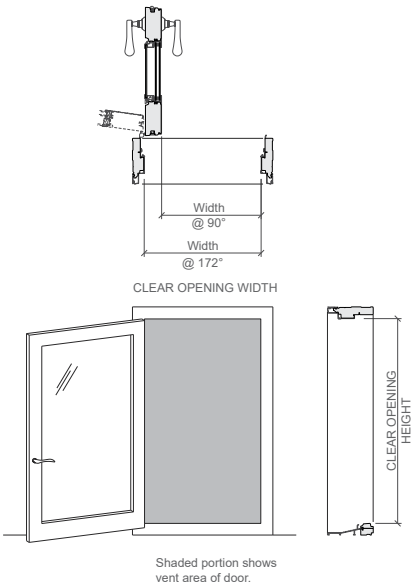
In-Swing Door Glass Formulas

	Single Door	Double Door	Sidelight	Transom
Visible Glass Dual-Pane	Width = Frame – 10.7" Height = Frame – 15.2535"	Width = Frame – 20.65" ÷ 2 Height = Frame – 15.2535"	NA	Width = Frame – 3.25" Height = Frame – 3.25"
Actual Glass Dual-Pane	Width = Frame – 9.52" Height = Frame – 14.0735"	Width = Frame – 18.29" ÷ 2 Height = Frame – 14.0735"	NA	Width = Frame – 2" Height = Frame – 2"
Visible Glass[1] Triple-Pane	Width = Frame – 12.436" Height = Frame – 16.185"	Width = Frame – 24.122" ÷ 2 Height = Frame – 16.185"	Width = Frame – 9.02" Height = Frame – 16.185"	NA
Actual Glass[1] Triple-Pane	Width = Frame – 11.313" Height = Frame – 15.0625"	Width = Frame – 21.876" ÷ 2 Height = Frame – 15.0625"	Width = Frame – 7.875" Height = Frame – 15.0625	NA

Clear Opening Formula

	Width	Height
Triple-Pane Clear Opening (@ 90°)	Double Door—Active Panel = Frame Width – 4.9375" ÷ 2 Double Door—Both Panels = Frame – 7.5" Single Door = Frame – 4.9375"	Height = Frame – 3.25"
Triple-Pane Clear Opening (@ 172°)	Double Door—Active Panel = Frame Width – 4.375" ÷ 2 Double Door—Both Panels = Frame – 6.65625" Single Door = Frame – 3"	Height = Frame – 3.25"
Dual-Pane Clear Opening (@ 90°)	Double Door—Active Panel = Frame Width – 4.9375" ÷ 2 Double Door—Both Panels = Frame – 7.5" Single Door = Frame – 5.3125"	Height = Frame – 3.0625"
Dual-Pane Clear Opening (@ 176°)	Double Door—Active Panel = Frame Width – 2.6875" ÷ 2 Double Door—Both Panels = Frame – 6" Single Door = Frame – 3.0625"	Height = Frame – 3.0625"

Clear Opening Schematic



* Available for Triple-Pane only, within size range shown. Keep frame dimensions to the nearest 1/4" increment.
(1) Dimensions of exterior light. Visible Glass of interior Moveable Light is 1/4" smaller.
To convert areas to square meters (m^2), multiply square feet by 0.0929.

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine, edge-banded or veneered.
- Exterior surfaces are clad with aluminum at the head and jambs.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127 mm) for a wall depth of 3-11/16" (94 mm).
- Frame depth between 5-7/8" (149 mm) to 8-5/8" (219 mm), for wall depth between 4-9/16" (116 mm) to 7-5/16" (186 mm).
- Optional factory-applied EnduraClad® exterior trim.
- Solid extruded aluminum sill with [Black] [mill] finish with oak threshold.

Door Panels

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are veneered with clear pine with no visible fastener holes.
- Exterior surfaces are clad with aluminum.
- Panel rails and hinge stiles are three-ply construction, randomly finger-jointed blocks laminated with water-resistant glue and pine-veneered on both sides.
- Panel lock stiles are constructed with LVL core with clear pine edge bands on both sides and veneered on both faces.
- Corners are urethane-sealed and secured with metal fasteners.
- Panel thickness is 2-1/16" (52 mm).

Weatherstripping

- Dual-durometer extruded polymer along perimeter of door frames and along the bottom of door panels.

Glazing System [1]

- Quality fully-tempered float glass complying with ASTM C 1048.
- High altitude glazing available.
- Silicone-glazed 13/16" [obscure[1]] dual-seal insulating glass [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon].

– or –

- Triple-Pane Glazing System:
  - Exterior dual-seal insulating glass, silicone-glazed 11/16", [obscure] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].
  - Interior hinged clear tempered glass panel set in a [veneered (for stain fishes)] aluminum frame, fitted to door panel with continuous gasket seal.
  - Airspace between insulating glass and hinge glass panel is 1-1/32".

Exterior

- Exterior aluminum surfaces are finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Finish color [Standard [Black] [White] [Brown] [Fossil]] [Feature [Iron Ore] Wolf gray] [Classic White] [Almond] [Portobello] [Putty] [Brick Red] [Hartford Green]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen White] [Bright White] [stain[1]]].

Hardware

- Hinges are adjustable to help with installation.
- Doors over 7' 0" frame height have four (4) hinges per panel.
- Doors 7' 0" and under frame height have three (3) hinges per panel.
- Mortised and keyed multi-point locking system, center deadbolt and shoot-bolts at head and sill will engage simultaneously.
- Solid brass handles and keylock with K-keyway cylinder.
- Key cylinder finish is [Brass] [Stainless Steel] [Matte Black].
- Hardware finish (Handle, Hinges and Strike) is [baked enamel [White] [Champagne] [Brown] [Matte Black]] [Satin Nickel] [Satin Brass].

Optional Products

Grilles

- Simulated-Divided-Light [with optional spacer] (Dual-pane glazing)
  - 7/8" Grilles permanently bonded to the interior and exterior of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
  - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain[1]]].
  - Exterior color to match the exterior cladding color.
- Simulated-Divided-Light with Grilles-Between-the-Glass (Triple-pane glazing)
  - 3/4" Grilles permanently bonded to the exterior of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
  - Exterior color to match the exterior cladding color.
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Interior color is [White] [Ivory] [Tan[3]] [Brickstone] [Black] [Putty[3]] [Brown[3]] [Harvest] [Cordovan].

– or –

- Grilles-Between-the-Glass[2]
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Cross] [Custom – Equally Divided].
  - Interior color is [White] [Ivory] [Tan[3]] [Brickstone[3]] [Black] [Putty[3]] [Brown] [Harvest] [Cordovan].
  - Exterior color [matched to the exterior cladding color] [White][4].

Screens

- Finish matches exterior cladding.
- Hinged Insect Screens:
  - Compliance: ASTM D 3656 and the performance requirements of SMA 1201.
  - Screen Cloth: InView™ Vinyl-coated fiberglass, 18/18 mesh fiberglass screen cloth complying the performance requirements of SMA 1201.
  - Extruded-aluminum frame, hinged to door frame.
  - Complete with necessary hardware.
  - Hardware Color: [Champagne] [Matte Black] [White] [Oil-Rubbed Bronze] [Satin Nickel].

– or –

- Exterior Sliding Insect Screens:
  - Compliance: ASTM D 3656 and the performance requirements of SMA 1201.
  - Screen Cloth: InView™ Vinyl-coated fiberglass, 18/18 mesh fiberglass screen cloth complying the performance requirements of SMA 1201.
  - Extruded-aluminum frame, top hung on 2 adjustable nylon rollers.
  - Complete with necessary hardware.
  - Hardware Color: [White] [Tan] [Brown] [Matte Black].

Integrated Between-the-Glass Window Fashions (Triple-Pane glazing only)[1]

- Slimshade® Blinds
  - 15 mm aluminum slat, bottom-up blinds with polyester cord ladder
  - Installed in sash between double glazing and interior hinged glass panel.
  - Operated with cordless operator or motorized with Insynctive® technology.

– or –

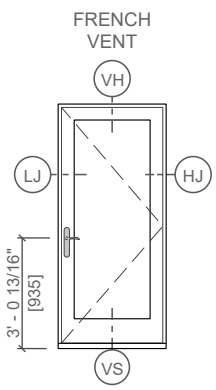
- Cellular Fabric Shades
  - 11/16" width, bottom-up shades with hidden polyester cord, spun bond Polyethylene Terephthalate (PET) cellular fabric.
  - Installed in sash between double glazing and interior hinged glass panel.
  - Operated with cordless operator or motorized with Insynctive® technology.

Sensors

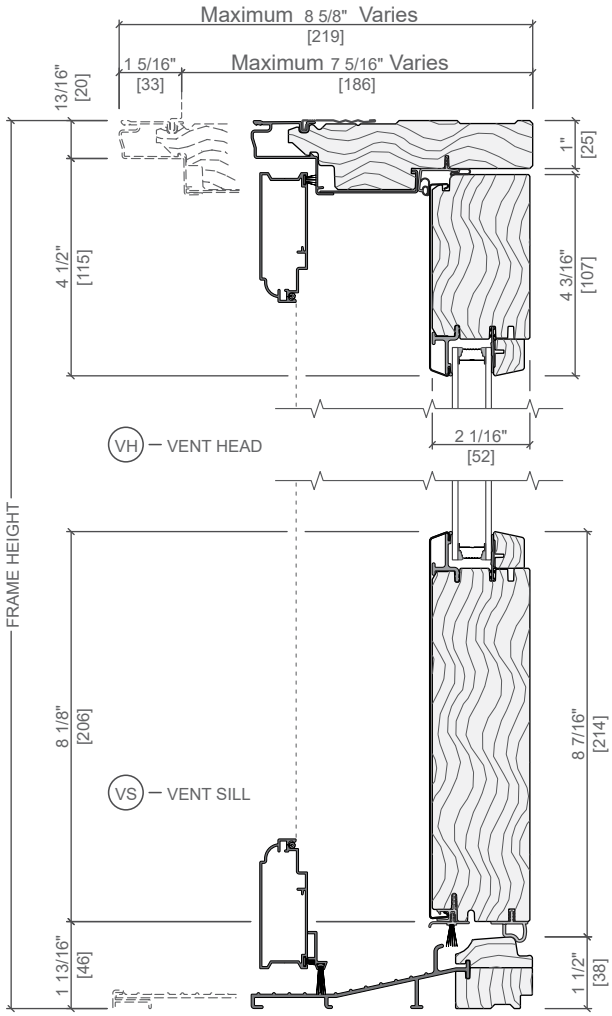
- Optional factory installed integrated security sensors available in vent units.

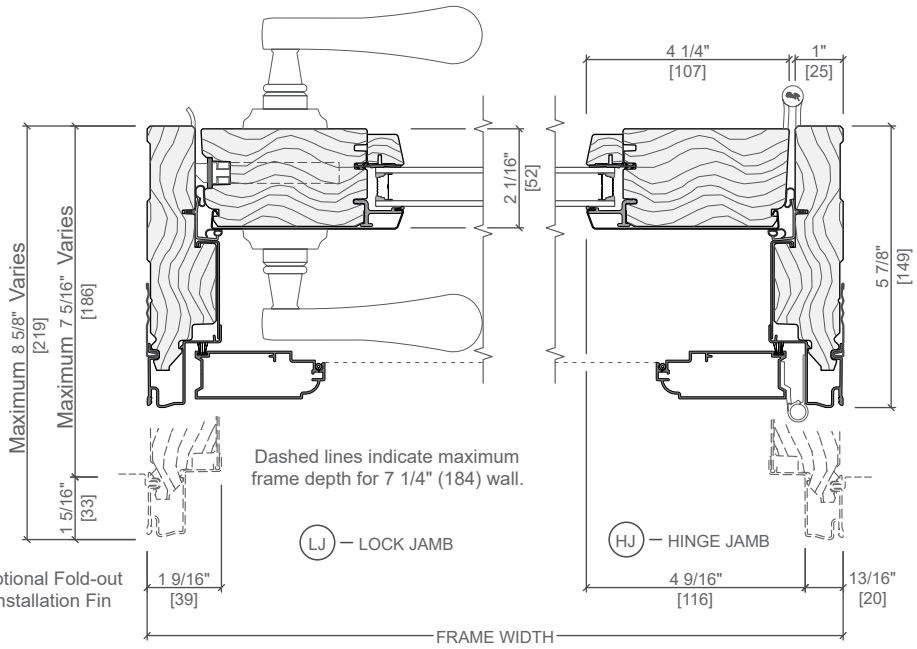
(1) Contact your local Pella sales representative for current designs and color options.
(2) Available on units glazed with Low-E insulated glass with argon, and obscure insulated glass.
(3) Tan, brickstone and putty Interior GBG colors are available only with matching interior and exterior colors.
(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.

Unit Sections - Dual-Pane



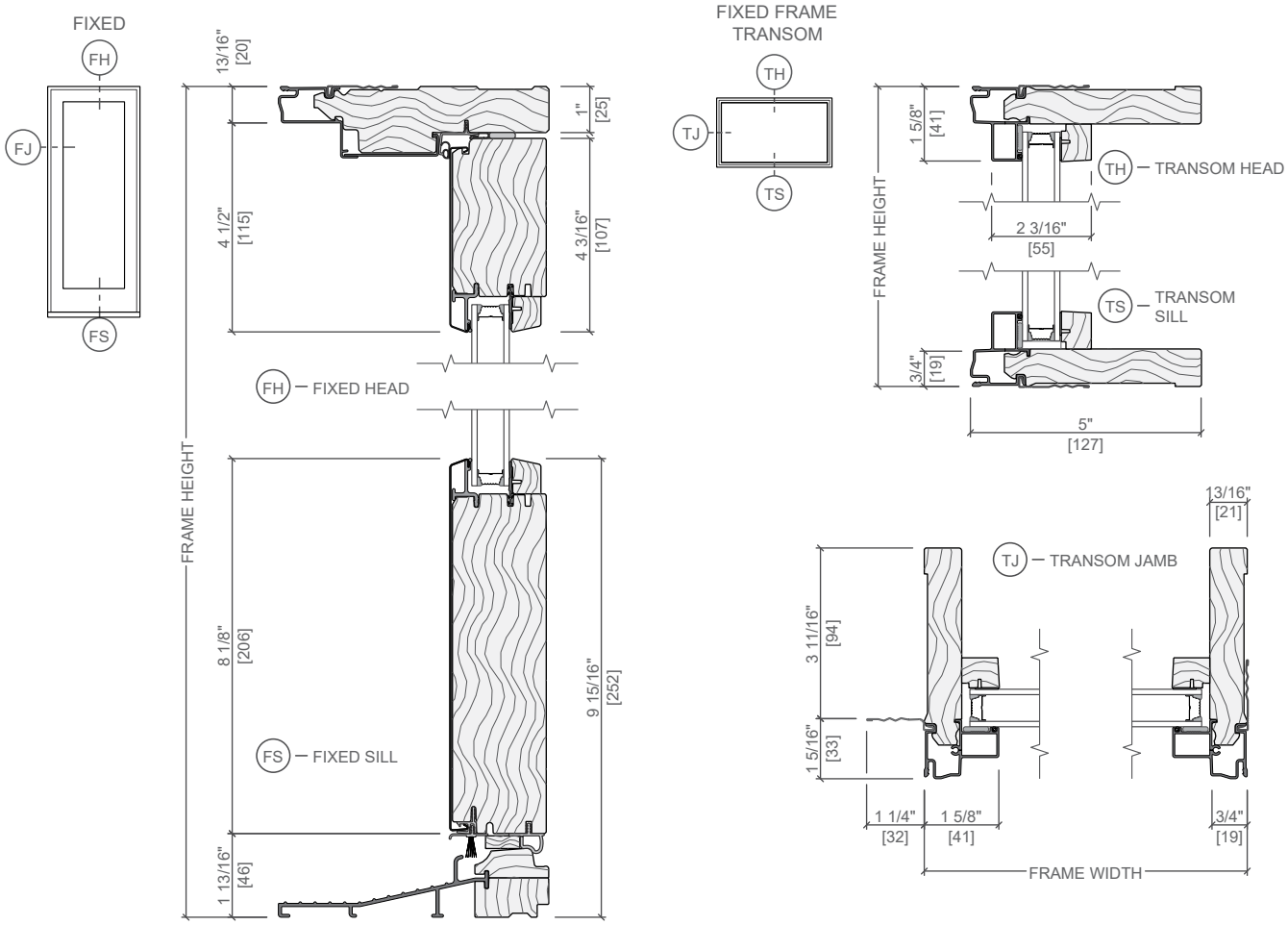
Handle Height Dimension shown is from bottom of unit frame to door handle. Installation method used and finished flooring conditions will cause handle height to vary. Doors not using the standard Pella multipoint lock and hardware (specified as 'No lock/No Bore') are not Hallmark certified.

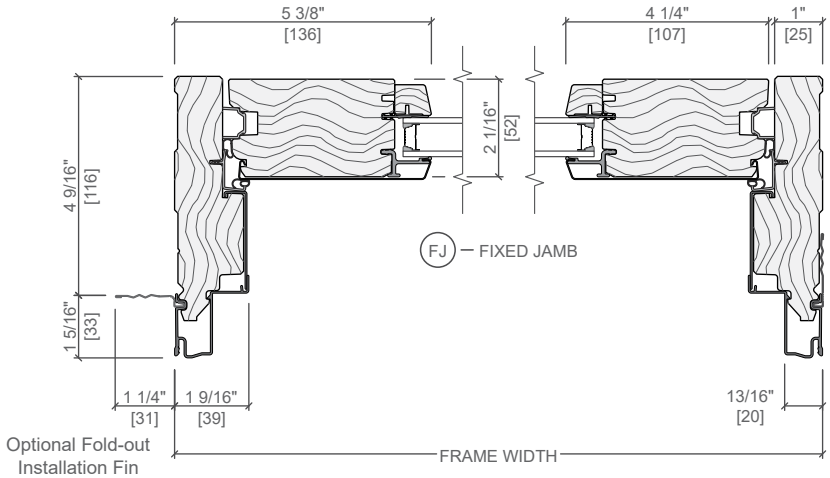


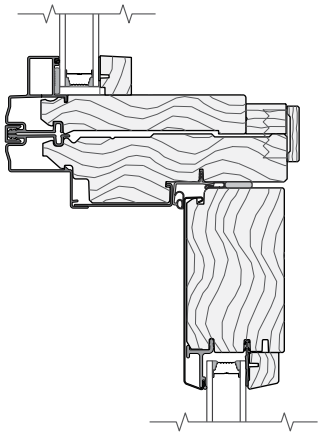


Scale 3" = 1' 0"
All dimensions are approximate.

Unit Sections - Dual-Pane







HORIZONTAL JOINING MULLION
FIXED FRAME TRANSOM /
IN-SWING DOOR

Use standard joining mullions when joining fixed door panels.

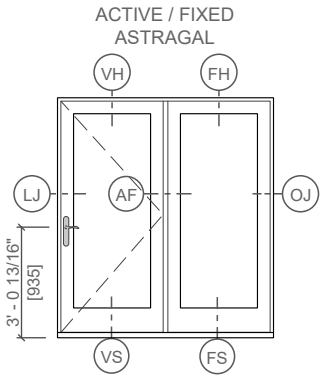
Sidelights or fixed panels may be joined directly to operable door panels. Composite must be installed with head drip fin and installation fins per standard installation instructions.

Structural mullion must be used for all other combinations.

Scale 3" = 1' 0"

All dimensions are approximate.

Unit Sections - Dual-Pane



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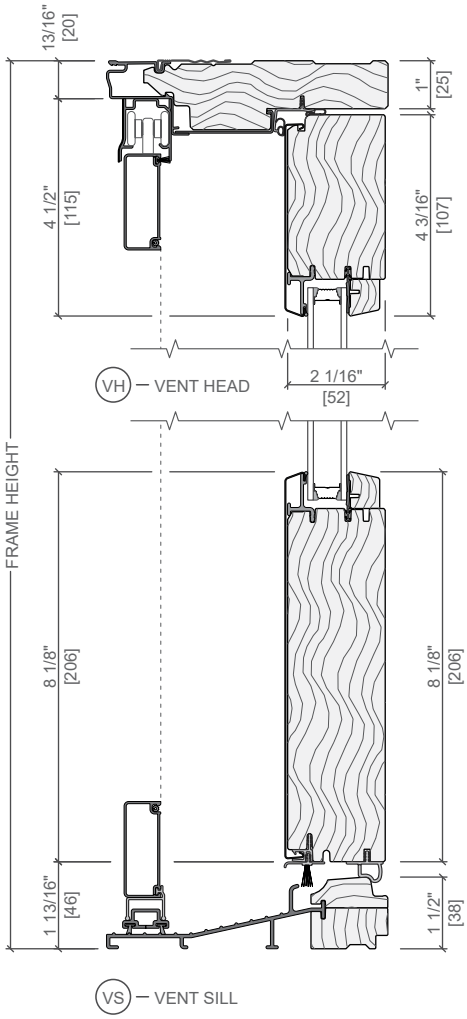

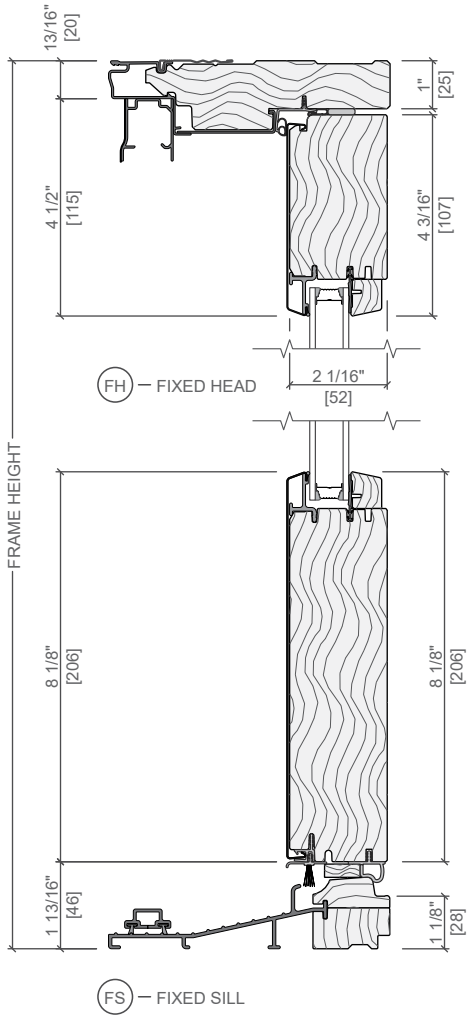

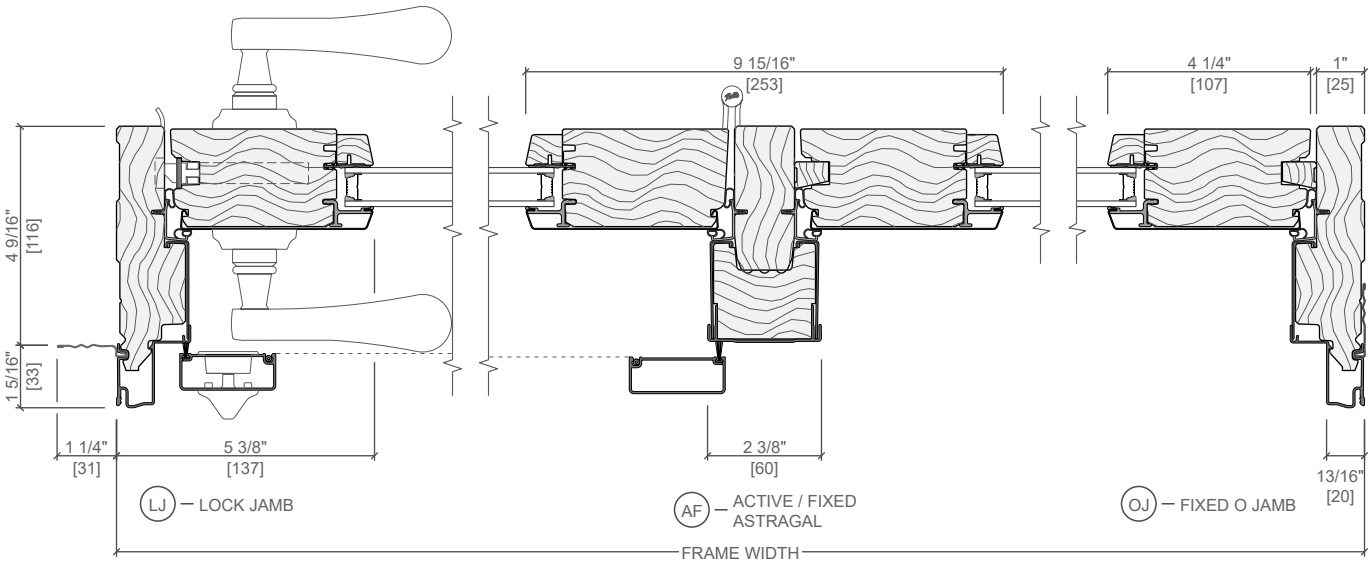

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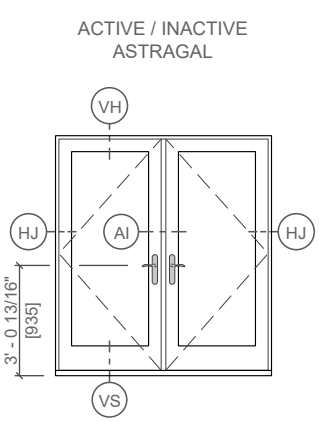
All dimensions are approximate.

Unit Sections - Dual-Pane



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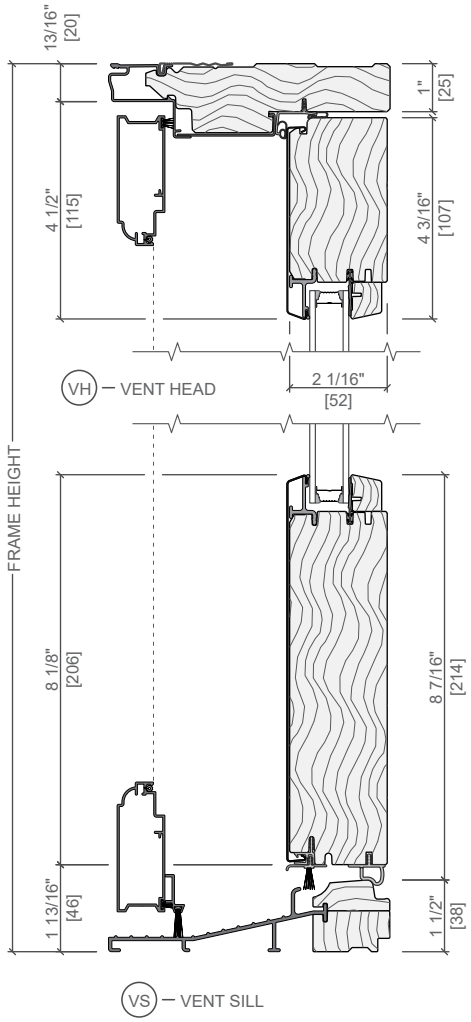
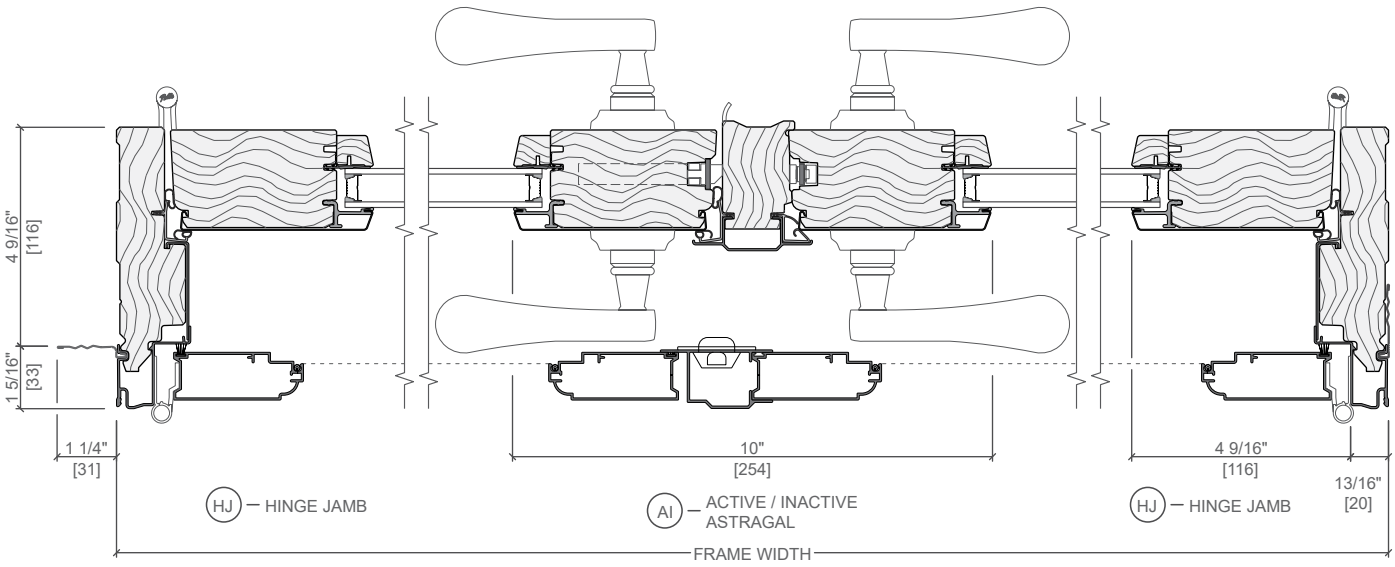




Scale 3" = 1' 0"
All dimensions are approximate.

Pella® Reserve™
Traditional Wood & Clad/Wood

Exquisitely designed windows and doors with unparalleled historical detailing.

Double-Hung Interior

Double-Hung Exterior

- **Historical details**
  Our most historically authentic line of wood windows and patio doors. Featuring through-stile construction, deliberate proportions and intricate profiles. Pella Reserve – Traditional products are the ideal choice for historical renovations and traditional building projects.
- **Authentic hardware**
  Complement your project with historically authentic spoon-lock window hardware. Our Antiek casement window hardware is inspired by period furniture to deliver authentic traditional style.
- **Architectural interest**
  Featuring the industry's only foam spacer solution, Pella's Integral Light Technology® grille helps capture the look of true-divided-light without sacrificing energy performance. Further your aesthetic with the putty profile, recreated with historically accurate angles – providing meaningful depth and a realistic shadow. Pella Reserve products offer the industry's deepest sash dimension.
- **Virtually unlimited customization**
  If you can dream it, we can build it with our most customizable product line. From extra tall to extra wide, Pella can craft unique windows that complement your aesthetic. Custom sizes, grille patterns and designs, finishes, wood types and glass options are available.
- **Tailor-made solutions**
  From preliminary drawings to installation, Pella's expert team of architects, engineers, drafters and consultants can work to deliver custom window and door solutions for your project. Partner with Pella to achieve your unique vision without concessions.
- **Intentional innovation**
  Winner of the 2019 Most Innovative Window from Window and Door Magazine, the Integrated Rolscreen® retractable screen preserves aesthetics and the view. It is a double- and single-hung screen that appears when you open the window, and rolls away, out of sight, when you close it.
- **Durable interiors and extruded aluminum exteriors**
  To help save you time on the jobsite, interior finish options are available in a variety of paints and stains, or primed and ready-to-paint. To complement your exterior aesthetic, choose from our carefully curated color palette or define your own custom color for your project.
- **ENERGY STAR® certified[1]**
  Pella wood products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states.
- **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.
- **Best limited lifetime warranty[2]**
  Pella Reserve products are covered by the best limited lifetime warranty in the business for wood windows and patio doors.[2]

Available in these window and patio door styles:

Special shape windows also available.

[1,2] See back cover for disclosures.

Product Specifications

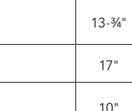
Window & Patio Door Styles	Min. Width	Min. Height	Max. Width	Max. Height	Performance Class & Grade	Performance Values U-Factor	SHGC	STC	Frame / Install
Awning	13-¾"	13-¾"	59"	59"	LC40-CW50	0.25-0.29	0.18-0.47	27-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Awning	17"	17"	53"	29"	R45-CW50	0.28-0.32	0.18-0.47	27-30	Pocket Replacement
Casement	13-¾"	13-¾"	47"	108"	R35-CW50	0.25-0.29	0.18-0.47	27-34	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Casement	17"	17"	35"	73"	R35-CW50	0.28-0.33	0.18-0.47	27-30	Pocket Replacement
Fixed Casement	10"	10"	144"	144"	R35-CW50	0.25-0.29	0.18-0.47	27-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Fixed Casement	17"	17"	59"	73"	R45-CW50	0.28-0.33	0.18-0.47	27-30	Pocket Replacement
Double-Hung	14"	24-⅜"	48"	96"	CW30-CW50	0.25-0.30	0.19-0.53	28-35	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
Precision Fit Double-Hung	13-½"	23-¾"	48"	84"	CW40-CW50	0.25-0.31	0.19-0.53	26-30	Pocket Replacement
Monumental Hung	13-¾"	24"	72"	144"	LC25-CW50	0.25-0.30	0.17-0.47	29-34	Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould
In-Swing Hinged Patio Door (Single)	18"	36"	48"	199-½"	LC40-LC55	0.25-0.29	0.14-0.40	31-35	
In-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	LC40-LC55	0.25-0.29	0.14-0.40	31-35	
Out-Swing Hinged Patio Door (Single)	18"	36"	48"	119-½"	R50-LC70	0.25-0.30	0.14-0.39	30-36	
Out-Swing Hinged Patio Door (Double)	36"	36"	96"	119-½"	R50-LC70	0.25-0.30	0.14-0.39	30-36	
Sliding Patio Door (O)	30-¾"	74"	60-¾"	119-½"	LC40-LC70	0.29-0.32	0.15-0.42	–	
Sliding Patio Door (OX, XO)	59-¼"	74"	119-½"	119-½"	LC35-LC65	0.29-0.32	0.15-0.42	29-35	
Sliding Patio Door (OXO)	90"	74"	180"	119-½"	LC30-LC45	0.29-0.32	0.15-0.42	–	
Sliding Patio Door (OXXO)	116-⅛"	74"	236-⅛"	119-½"	LC25-LC40	0.29-0.32	0.15-0.42	–	
Multi-Slide Patio Door	40-¼"	50-½"	701-⅝"	119-½"	R15-LC25[3]	0.30 – 0.36	0.15 – 0.46	31	For more info visit PellaADM.com
Bifold Patio Door	31-¾"	55-½"	312"	119-½"	R15-LC25[3]	0.26-0.44	0.13-0.45	–	

Window sizes available in 1/8" increments
Special sizes available. For more information regarding performance, visit pella.com/performance. For more information regarding frame and installation types, visit PellaADM.com.

Grilles

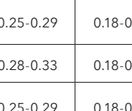
Integral Light Technology®

Choose the look of true divided light featuring the industry's only foam spacer.



Putty Glaze Exterior with Ogee Interior[4] 7/8", 1-1/4" or 2"

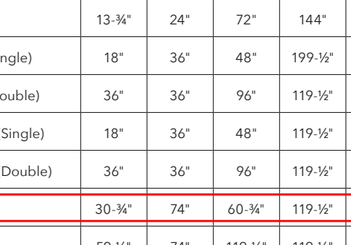
Putty Glaze Exterior with Ogee Interior[4] 7/8", 1-1/4" or 2"



Ogee Exterior with Ogee Interior[4] 7/8", 1-1/4" or 2"

Cross Sections

Cross Sections



Optional Fold-out Installation Fin

The double-hung cross sections provide visual reference to the historic putty exterior profile and traditional, beveled Ogee interior that add architectural interest to your project.

[3,4] See back cover for disclosures.

Window Hardware

Classic Collection

Get a timeless look with authentic styles in classic finishes.

Fold-away Crank
Antiek

Spoon-Style Lock

Finishes:

Champagne

White

Brown

Matte Black

Oil-Rubbed Bronze

Satin Nickel

Satin Brass

Rustic Collection

Create a distinct and charming look with distressed finishes.

Fold-away Crank
Antiek

Spoon-Style Lock

Finishes:

Distressed Bronze

Distressed Nickel

Essential Collection

Select from popular designs and finishes to suit every style.

Fold-away Crank

Cam-Action Lock

Finishes:

Champagne

White

Brown

Matte Black

Oil-Rubbed Bronze

Satin Nickel

Satin Brass

Patio Door Hardware

Classic Collection

BALDWIN

Choose timeless pieces, created in collaboration with Baldwin® Hardware, for a look that will never go out of style.

Hinged & Bifold Patio Door Handle
Virago

Sliding & Multi-Slide Patio Door Handle
Ambrose

Multi-Slide Patio Door Handle[5,6]

Finishes:

Matte Black

Oil-Rubbed Bronze

Satin Nickel

Satin Brass

Essential Collection

Elevate your style and transform a home with elegant selections.

Hinged & Bifold Patio Door Handle
Standard

Sliding Patio Door Handle
Standard

Multi-Slide Patio Door Handle[5,6]

Finishes:

Champagne

White

Brown

Matte Black

Oil-Rubbed Bronze

Satin Nickel

Satin Brass

Additional hardware collections available. Visit PellaADM.com for more information.

[5,6] See back cover for disclosures.

Colors

Wood Types

Choose the wood species that best complements your project's interior.

Custom solutions:

Pine


Douglas Fir


Mahogany


White Oak

Red Oak


Cherry

Maple

Prefinished Pine Interior Colors

Custom interior finishes, unfinished or primed and ready-to-paint are also available.

White

Bright White

Linen White


Natural Stain


Golden Oak Stain


Early American Stain


Provincial Stain


Dark Mahogany Stain


Red Mahogany Stain


Espresso Stain


Charcoal Stain


Black Stain

Extruded Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists fading. Take durability one step further with EnduraClad Plus which also resists chalking and corrosion.[7]


Black

White


Brown


Fossil

Custom colors are also available.


Iron Ore


Portobello


Putty

Almond

Classic White


Brick Red


Hartford Green

Pearl Gray

Soft Linen


Satin Steel


Matte Gray

Wolf Gray


Spice Red


Sage


Frost Blue


Blue Ash

Added Peace of Mind

Integrated Security Sensors

Integrated wireless security sensors maintain aesthetics, streamline security installation and ensure no warranty loss is caused by post-installation drilling. Sensors can be monitored via the free Pella® Insynctive® App and are compatible with major security panel systems.[8] For more information, go to connectpella.com.

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.[2]

[1] Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.
[2] 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 or contact Pella Customer Service.
[3] Ratings are contingent on product configurations.
[4] Color-matched to your product's interior and exterior color.
[5] Flush multi-slide handle is a Pella exclusive design.
[6] Flush multi-slide handle is not available in Champagne.
[7] EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.
[8] Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home router with internet connection.

Adopted resolution for the setback reduction at 706 Main Drive included for reference.

TOWN OF HERNDON, VIRGINIA
HISTORIC DISTRICT REVIEW BOARD

RESOLUTION

JANUARY 17, 2024

Resolution- to approve HDRB #23-018, for a reduction of the required secondary front yard building setback from 35 feet to 20 feet, in accordance with Sec. 78-60.3(e) of the Herndon District Overlay, on the single-family residential property located at 706 Main Drive, further identified as Fairfax County Tax Map 0162 04 0030B.

THEREFORE, BE IT RESOLVED by the Historic District Review Board of the Town of Herndon, Virginia that:

The Historic District Review Board approves HDRB #23-018, for a reduction of the required secondary front yard building setback at 706 Main Drive, Herndon, Virginia, in substantial conformance with the information shown in the case materials reviewed by the HDRB at the January 17, 2024, Public Hearing meeting and with the following conditions:

1) The secondary front setback shall be reduced from 35 feet to 21.2 feet to align with the placement of the existing house in relation to the right-of-way. No new buildings or portions of building can be placed closer than 21.2 feet from the Vine Street right-of-way.

2) This approval for a setback reduction does not in any way override other zoning ordinance regulations such as, but not limited to, the minimum separation between accessory and primary structures, maximum lot coverage, and maximum building coverage.

This is certified to be a true and accurate copy of resolution 24-HDRB-001 associated with HDRB application #23-018, adopted at a legally convened meeting of the Town of Herndon Historic District Review Board on January 17, 2024.

Aaron Zoellick
Clerk of Boards and Commissions

Architectural Survey Information for 706 Main Drive (added 7/8/2025)

Town of Herndon Survey
Fairfax County, Virginia

Surveyor: EHT Traceries (B. Marzella) Date: October 6, 2017

Street #: 706 Street Name: Main Drive DHS ID#: 235-0003-0237

Primary Resource

Property Name (if any):

Resource Category:	Domestic			Resource Type:	Single Family Dwelling
Construction Date:	1927	Exact		VDHR Time Period:	World War I to World War II (1917-1945)
Contributing Status:	Contributing		Condition:	Good	Style: Colonial Revival
Bldg. Type:	Rectangular		Bays:	3	Stories: 1.5

Primary Cladding Material:		Primary Treatment:	Stretcher Bond	Primary Material:	Brick
Secondary Cladding Material:		Secondary Treatment:	Siding, Lap	Secondary Material:	Vinyl
Roof Type:	Clipped Gable (Jerkinhead)			Roof Material:	Asphalt shingle
Chimney Type:	Interior Slope	Chimney Treatment:	Stretcher Bond	Chimney Material:	Brick
Dormer Type:	Shed			Dormer Material:	Vinyl
Foundation Type:	Solid/Continuous	Found'n Treatment:	Stretcher Bond	Found'n Material:	Brick
Porch Type:	Stoop/Deck	Support Type:	No Supports	Floor Material :	Brick
Window Type:	Double-Hung	Glazing Type:	9/9 True	Window Material:	Wood
Shutter Type:	None	Shutter Treatment:	N/A	Shutter Material:	N/A
Garage Type:	Detached	Garage Treatment:	Side-loaded	No. of Bays:	1

Describe the following features, where present:

Main Entry Door: Paneled wood door with glazed sidelights and segmentally arched surround.

Front Porch: Half-round brick stoop.

Signs and/or Murals: None

Photograph - Primary Elevation(s)

Describe the following features, where present:

Details or Character-Defining Features: Distinctive Colonial Revival house with English Cottage form. Intact wood windows and details, yellow brick, and brick sills and lintels.

Major Additions and/or Alterations: House remodeled circa 2009 with two-story rear addition. Replacement of some exterior cladding materials, including siding and windows on shed dormers.

(Note location, size, & date)

Photograph - Secondary Elevations or Details

Secondary Resource #1

Resource Type: Garage Condition: Good

Construction Date: 1927 Circa

Stories: 1 Bays: 1

Resource Description: One-story, original garage building at rear of property facing side street. Matching yellow brick to main house

(Note location, size, and distinctive features)

Photograph - Secondary Resource(s)

Primary Cladding Material:		Primary Treatment:	Stretcher Bond	Primary Material:	Brick
Secondary Cladding Material:		Secondary Treatment:	None	Secondary Material:	N/A
Roof Type:	Hipped			Roof Material:	Asphalt shingle (3-tab)
Chimney Type:	None	Chimney Treatment:	N/A	Chimney Material:	N/A
Foundation Type:	Solid/Continuous	Found'n Treatment:	Stretcher Bond	Found'n Material:	Brick
Porch Type:	None	Support Type:	N/A	Floor Material :	N/A
Window Type:	Double-Hung	Glazing Type:	6/6 True	Window Material:	Wood

Additional Resources

Resource Description:

(Note location, type, & appearance)

TOWN OF Herndon VIRGINIA

Historic District Review Board
Work Session

STAFF REPORT

Agenda Item: APPLICATION FOR AN ADDITION, HDRB #25-003, to consider an application for a Certificate of Appropriateness for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia

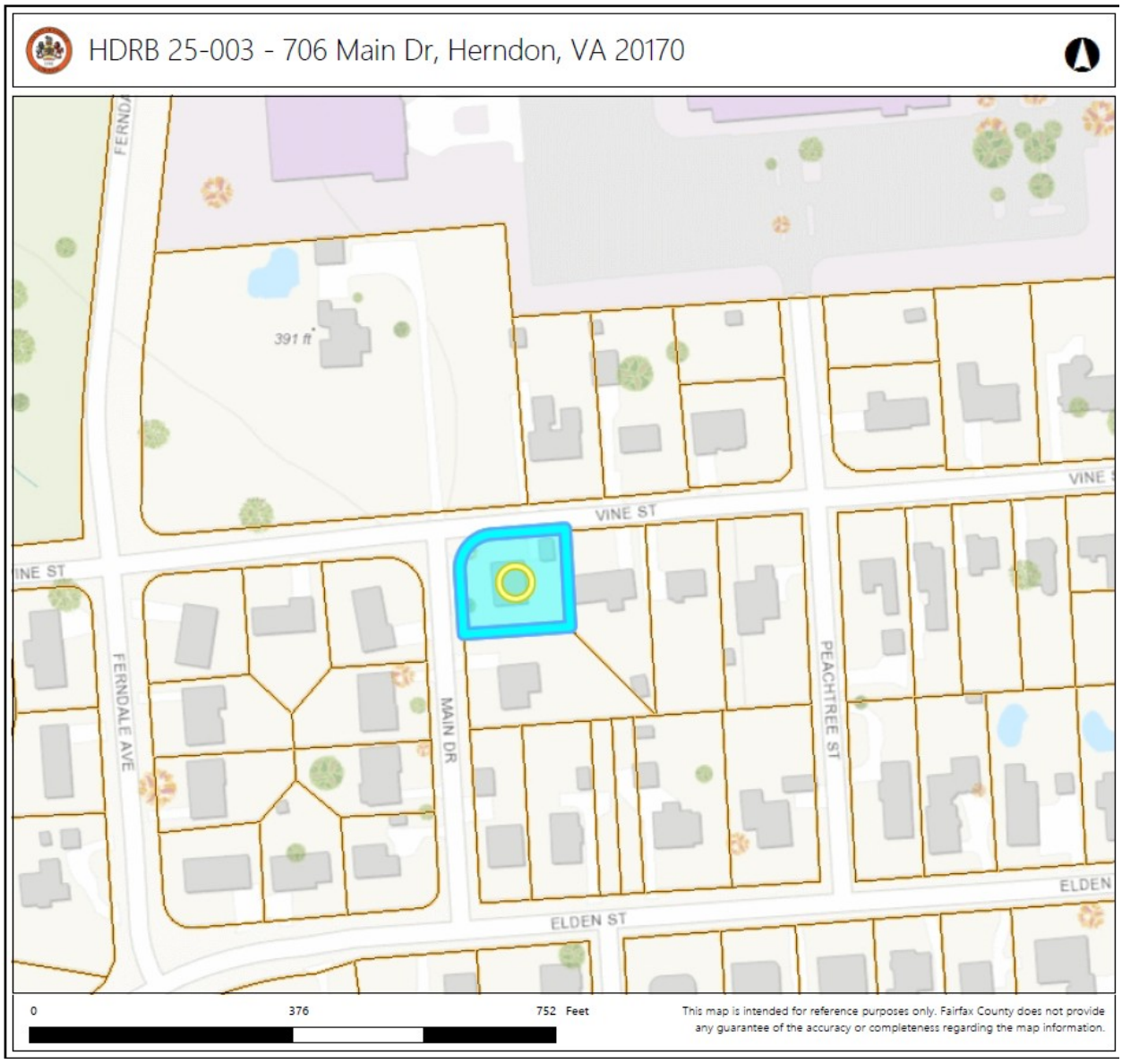
Meeting Date: July 2, 2025

Staff Contact: Angelina R. Jones, Lead Planner - Design & Development

Summary Information:

Proposed Modification	Alteration – Rear addition		
Address	706 Main Dr, Herndon, VA 20170		
Fairfax County Tax Map Number	0162 04 0030B		
Owners	Andrew Kelley		
Applicant	David Fazio, M W Architects		
Business/Organization	N/A		
Property Use	Residential		
Zoning District	R-10, Residential Single-Family-10		
HDO Designation	Contributing		
Adjacent Zoning	**North:** R-10, Residential Single-Family-10 **South:** R-10, Residential Single-Family-10	**East:** R-10, Residential Single-Family-10 **West:** R-10, Residential Single-Family-10	
Building Type(s)	Single Family Dwelling	**Date of Construction:**	c. 1927
Architectural Style(s)	Colonial Revival		
Exterior Material(s)	Yellow brick (stretcher bond); Vinyl lap siding		
Neighborhood Design Profile	The surrounding neighborhood is residential, both within the HDO and outside the HDO.		
Comprehensive Plan Land Use Designation	Neighborhood Conservation		

Location Map:



Background & Site Description:

Site Description

A two-story, single-family detached house sits on the property at 706 Main Drive at the corner of Main Drive and Vine Street. As this is a corner property, it has two front setbacks. The house features a jerkinhead or clipped gable roof, three shed roof dormers on the façade, a decorative door surround, and a mix of 9-over-9 and 6-over-6 double-hung sash windows. The primary cladding is yellow brick with lap siding on the

dormers, and the roof is covered with asphalt shingles. The property also has a detached garage located at the rear of the house along Vine Street. There is a siding-clad, two-story addition at the rear of the house that was added in 2011.

Architectural Style

The Colonial Revival style (1880-1955) drew inspiration from Georgian and Federal colonial styles of architecture. Residential examples of this style typically feature an accented front door surrounded by fanlights or sidelights and a decorative pediment or entry porch. The façades of these buildings are characterized by symmetrically balanced fenestration featuring double-hung sashes with multi-pane glazing. While a variety of wall cladding materials were used for this style, brick is the most common, which is consistent with the Georgian and Federalist style buildings that the Colonial Revival architecture replicates.

Additional Background

In January 2024, the applicant received a setback reduction from the Historic District Review Board (HDRB) for the secondary front yard that changed the setback from 35 feet to 21.2 feet from the Vine Street right-of-way. This approval did not override other Zoning Ordinance requirements such as minimum separation between accessory and primary structures, maximum lot coverage, and maximum building coverage (see attachments for adopted resolution for the setback reduction). This project will also require a Building Location Survey, which is currently in process, to verify the design's compliance with applicable zoning requirements.

Case Details & Proposal:

The proposed rear addition is one-story, measures approximately 68.25 square feet in area, and will serve to extend the existing 2011 addition to square the northeast corner of the house. The additional space will expand the kitchen and accommodate a mud room. This addition will front Vine Street and sit about 21.2 feet from the property line, which is consistent with the setback reduction previously granted by the HDRB (see above). The applicant also proposes adding a shed roof porch at the southeast corner of the house, which will cover an area of approximately 116 square feet. This will be adjacent to a proposed prefabricated, aluminum covered pergola, which covers an area of 247 square feet. The proposed addition is consistent with the design and features of the existing 2011 addition. The design also proposes an additional parking pad adjacent to the detached garage, although additional detail is needed as to its dimensions (note that this will be evaluated against applicable coverage requirements under the Zoning Ordinance as part of the Building Location Survey described above).

As part of this project, the applicant is requesting to paint the unpainted masonry of the house and the detached garage. Note that Chapter 5 of the *Historic District Overlay Guidelines* states that historically unpainted wall surfaces should remain unpainted on contributing resources.

The application includes cut sheets for roofing material (CertainTeed Landmark TL in the moire black architectural shingle), siding (smooth HardiePlank lap siding), windows ("Pella" Reserve Traditional Double Hung Window), patio doors (Pella Reserve Traditional Sliding Patio Door and the Pella Lifestyle Series In-swing Patio Door), lighting fixtures (Kichler outdoor lantern), and two skylights (Velux FS fixed). Both the Pella windows and doors will be clad in aluminum (EnduraClad) and the sash color of the windows will be white. The skylights, as proposed, sit about 3.6” above the roof face. The proposed covered pergola is free-standing (not attached to the primary dwelling) and prefabricated, and it will sit on a concrete pad. The pergola includes rotating slats, which essentially create a full roof when turned. Staff are requesting additional information summarized in the staff analysis of this report that will allow for a better understanding of how the proposed materials of the addition complement the materials of the existing house.

Staff Analysis:

Zoning Ordinance Compliance
Staff has found that this application complies with the applicable standards and requirements of the zoning ordinance, as stated in Section 78-60.3(f)(1) - Standards for Alterations. Additionally, the proposal generally complies with best practices as defined by the *Historic District Overlay Guidelines* – Chapter 5 New Additions, Exterior Wall Materials and Finishes.

HDO Design Guidelines Adherence
For this application, the applicable guidelines are found in Chapter 5 – Treatment of Contributing Buildings. The attached Guidelines Matrix provides the full staff analysis of this project. In summary of this analysis, staff find that:

- The proposed addition extends the first-floor plane of the existing addition on the elevation facing Vine Street (north). While this change will be visible from the right-of-way, the massing and continuity with the 2011 addition minimize its visual impact. The proposed porch will be screened from the right-of-way by the existing addition. The roof of the pergola will be visible along Vine Street, as this

is a corner lot. However, the location of this feature is setback about 48 feet from Vine Street, which minimizes the visual impact. Overall, staff find that the scale and massing of the proposed addition is appropriate in relation to the contributing resources on the property and that it will not negatively impact the integrity of the Historic Overlay District more broadly.

- Staff request additional details regarding the lite division of the proposed windows. Will they also be six-over-six, consistent with what is currently seen at the rear of the house? Staff would like confirmation that the windows will feature dimensional muntins or grilles on the exterior of the glass. Staff recommend matching details on the existing addition to the extent possible.

- Staff are also requesting additional information regarding the treatment of existing siding on the house. Will the siding on the dormers and existing rear addition be replaced with the same Hardie Plank lap siding proposed for the addition? Staff support differentiating between siding on the circa 1927 portion of the building and the siding on additions.

- Staff do not support painting the previously unpainted masonry of the house or of the detached garage, which is also a contributing resource within the historic district. Brick, including its color and texture, is an important feature typical of the Colonial Revival architectural style (see details above). Furthermore, painting historically unpainted masonry of contributing resources contradicts best practice as described in Chapter 5 of the *Historic District Overlay Guidelines*. Painting brick is an irreversible action. Once applied, removal of any type of paint from the building will cause damage to the brick substrate.

- The applicant has confirmed that the proposed roofing (CertainTeed Landmark TL in the moire black architectural shingle) will be used to re-roof the entirety of the existing house and the addition. Staff are unclear as to whether this also includes the detached garage. Staff recommend matching the red-brown color of the existing roofing material rather than using black, as this color complements the yellow of the masonry, which constitutes the majority of the building's cladding on the historic portion of the house.

- Staff request the dimensions of the proposed concrete pad that the pergola will sit on and for the proposed additional parking pad, as well as the proposed material for the parking pad. Staff recommend the addition of a visual landscaping buffer to screen the additional parking pad proposed along Vine

Street. This is consistent with guidance for site features described in Chapter 5 of the *Historic District Overlay Guidelines*. Note that this feature is also being reviewed as part of the Building Location Survey process to ensure compliance with applicable requirements of the Zoning Ordinance regarding lot coverage and paving material.

Historic District Review Board Alternatives:
The following alternatives are available to the Historic District Review Board for its decision on HDRB 25-003.

1. Approval as proposed
2. Approval with conditions
3. Denial on specific stated grounds
4. Continuance of the application to a future public hearing

Staff Recommendation:

Staff are withholding a recommendation pending the provision of additional information.

Town of Herndon, Virginia
Notice of Public Hearing

Notice is hereby given that the **Historic District Review Board** (HDRB) of the Town of Herndon, Virginia, will hold a public hearing on Wednesday, July 16, 2025, at 7:00 p.m. in the Herndon Council Chambers Building, located at 765 Lynn Street, Herndon on the following items:

APPLICATION FOR AN ADDITION, HDRB #25-003, to consider an application for a Certificate of Appropriateness for a rear addition to the single-family residential building located at 706 Main Drive, Herndon, Virginia, located in the southeast corner of the intersection of Main Drive and Vine Street. The subject property is further identified as Fairfax County Tax Map 0162 04 0030B, is zoned R10, Residential Single Family-10 District, and consists of 11,690 square feet of land. Applicant: David Fazio, MW Architects. Property Owner: Andrew Kelley.

APPLICATION FOR AN ALTERATION TO AN EXISTING STRUCTURE, HDRB #25-004, to consider an application for a Certificate of Appropriateness for alterations to a single-family residential building located at 703 Dranesville Road, Herndon, Virginia, located on the west side of Dranesville Road, south of the intersection with Worchester Street. The subject property is further identified as Fairfax County Tax Map 0104 03040002B, is zoned R10, Residential Single Family-10 District, and consists of 11,586 square feet of land. Applicant and Property Owner: Niccolo Pietro Porcari.

The public is encouraged to participate in the town's public hearing process. Individuals having an interest in the above items are invited to attend the public hearing and state their opinions and may also submit comments to hdrb.arb@herndon-va.gov.

The proposed item is available for examination at the Department of Community Development, 777 Lynn Street, Herndon, during normal business hours (Monday – Friday) and available for review by the public on the town's website www.herndon-va.gov.

The Town of Herndon supports the Americans with Disabilities Act by making reasonable accommodations for persons with disabilities so that they may participate in services, programs, or activities, offered by the town. Please call (703) 435-6804 to arrange for any accommodation that may be necessary to allow participation.

Amanda Morrow Kertz, Town Clerk

Note to Publisher:
Publish on June 27/July 4, 2025

Historic District Review Board
Regular Meeting
Agenda Item 4.b.

Agenda Item: **APPLICATION FOR AN ALTERATION TO AN EXISTING STRUCTURE, HDRB #25-004, to consider an application for a Certificate of Appropriateness for alterations to a single-family residential building located at 703 Dranesville Road, Herndon, Virginia**

Meeting Date: July 16, 2025

Category: Public Hearings

Prepared by: Angelina Jones, Lead Planner / Design and Development

Description:
The applicant has changed the proposed scope of work for this project. The applicant will replace the wooden siding on the north elevation of the house that is no longer serviceable in-kind, matching the material and design of the existing siding. As a result, the modifications can now be reviewed administratively by staff. Therefore, the applicant has requested to withdraw the application from the Historic Design Review Board's consideration.

Background:
N/A

Fiscal Impact:
N/A

Staff Recommendation/Next Steps:
Staff recommends approval of the withdrawal of this application.

Attachments:
1. Legal Ad

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