Montgomery County Historic Preservation

Staff Report

ADDRESS: 7818 Overhill Rd., Bethesda	**MEETING DATE:** 5/13/2026
RESOURCE: Greenwich Forest Historic District	**REPORT DATE:** 5/6/2026
APPLICANT: Bill and Allison Trunk	
REVIEW: HAWP	**PUBLIC NOTICE:** 4/29/2026
CASE NO.: 1155067	**TAX CREDIT ELIGIBLE:** No
PROPOSAL: Accessory Structure Alterations	**STAFF:** Dan Bruechert

Staff Recommendation

Staff recommends the HPC approve with two (2) conditions the HAWP application with final approval delegated to staff:

1. A detailed specification for the overhead garage door must be submitted before issuing the final HAWP approval documents.
2. A detailed specification for the pavers under the shed roof must be submitted before issuing the final HAWP approval documents.

Architectural Description

Significance: Contributing Resource to the Greenwich Forest Historic District

Date: 1931

Style: none

Figure 1: The location of the subject property in the Greenwich Forest Historic District is shown with a yellow star.

Proposal

The applicant proposes an extensive rehabilitation to the existing detached garage including, new siding, roof replacement, dormer construction, and door and window replacement.

Applicable Guidelines

When reviewing alterations and new construction within the Greenwich Forest Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include the Greenwich Forest Historic District Amendment to the Master Plan for Historic Preservation (*Design Guidelines*), Montgomery County Code Chapter 24A-8 (*Chapter 24A-8*), and the Secretary of the Interior's Standards for Rehabilitation (*Standards*). The pertinent information in these documents is outlined below.

Montgomery County Code Chapter 24A-8

(a) The commission shall instruct the director to deny a permit if it finds, based on the evidence and information presented to or before the commission that the alteration for which the permit is sought would be inappropriate, inconsistent with or detrimental to the preservation,

enhancement or ultimate protection of the historic site or historic resource within an historic district, and to the purposes of this chapter.

(b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:

1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

6) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or

(d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

Design Guidelines

A. Principles

A4. A contributing House may not be torn down and replaced unless there is significant/extensive damage that would create an undue hardship to preserve the original structure…"

C. Definitions

Demolition (also known as 'tear-down') means the removal of more than 50% of the existing perimeter walls or any significant alteration of the original front elevation.

Levels of review means the nature of review applicable to a proposed modification. The three levels of review are:

• Limited scrutiny is the least rigorous level of review. With this level, the scope or criteria used in the review of applications for work permits is more limited and emphasizes the overall structure rather than materials and architectural details. The decision-making body should base its review on maintaining compatibility with the design, texture, scale, spacing, and placement of surrounding houses and the impact of the proposed change on the streetscape.

• Moderate scrutiny is a higher level of review than limited scrutiny and adds consideration of the preservation of the property to the requirements of limited scrutiny. Alterations should be designed so the

altered structure does not detract from the fabric of Greenwich Forest while affording homeowners reasonable flexibility. Use of compatible new materials or materials that replicate the original, rather than original building materials, should be permitted. Planned changes should be compatible with the structure's existing architectural designs.

• Strict scrutiny is the highest level of review. It adds consideration of the integrity and preservation of significant architectural or landscape features and details to the requirements of the limited and moderate scrutiny levels. Changes may be permitted if, after careful review, they do not significantly compromise the original features of the structure or landscape.

D. Major Guidelines

D5. Guidelines on dimensions: The total lot coverage of a house may not exceed 25% of the lot area, and accessory buildings may not exceed 5% of the lot area. The area of an accessory building may be increased by 2%, to 7% of total lot coverage, if the lot coverage of the house and the accessory buildings added together does not exceed 30% of lot area.

Additions should try to preserve ample spacing between houses (see Principle 2b). For example, visual crowding between houses could be minimized by placing an addition toward the back of a property, placing an addition on the side of a property with greater distance to the adjacent house (especially when a side lot abuts the rear setback of an adjacent corner house), or by screening additions with plantings. The total of the two side lot setbacks must be at least 18', with no less than 7' on one side. Rear lot setbacks must be at least 25', though decks no higher than 3' from the ground may extend to an 11' setback.

The elevation of the main or predominant ridgeline(s) of a contributing house as viewed from the front may not be increased. To avoid excessive increases in the visual mass of houses, the elevation of any separate ridgelines of an addition to the rear of the house may not be more than 3' above that main ridgeline.

D4. Additions: Additions to contributing and non-contributing houses are allowed. The style of an addition must be compatible and in keeping with the prevailing styles of that house. The style of the addition must be compatible with the style of the original house, unless the owner wishes to change the architectural style of both the house and addition to another style of a contributing house in Greenwich Forest (see Changes to architectural style, below). Additions to contributing houses must preserve as a recognizable entity the outline of the original house (not including subsequent additions). Side additions to contributing houses are allowed, but the limits of the original façade must be demarcated by stepping back the front plane of the addition and by a change in the addition's roofline. Rear additions to contributing houses are allowed within limitations on height and setbacks (see D5).

D7. Building materials: Replacement of roofs, siding, and trim with original materials is strongly recommended and is considered maintenance that will not require an application for a work permit. Use of non-original "like materials" such as architectural asphalt shingles requires a work permit to ensure that they match the scale, texture, and detail of the original materials and are consistent with the overall

design of the existing house. For example, homeowners wishing to replace slate or tile roofs may use alternative materials that match the scale, texture, and detail of the roof being replaced. If an original slate or tile roof had been replaced with non-original material before July 1, 2011, the homeowner may replace the existing roof in kind or with another material consistent with the architectural style of that house.

D17. Windows, dormers, and doors: Door and window replacements are acceptable, as long as the replacements are compatible with the architectural style of the house. Replacement windows with true or simulated divided lights are acceptable, but removable ('snap-in') muntins are not permitted on front facing windows of contributing houses. Front-facing dormer additions to third floors are permitted on non-contributing houses and on contributing houses, if such additions do not involve raising the main roof ridge line (as specified in D5) and if the addition is compatible in scale, proportion, and architectural style of the original house.

Secretary of the Interior's Standards for Rehabilitation

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, space and spatial relationships that characterize a property will be avoided.
6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.
9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportions, and massing to protect the integrity of the property and its environment.
10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

Staff Discussion

The subject property is brick-sided two-story, side gable Colonial Revival House. At the rear of the property there is a clapboard, front gable, detached two-car garage with a fixed door. The garage at the subject property is one of only two outbuildings in the Greenwich Forest Historic District classified as "Contributing". Both of these Contributing outbuildings are associated with properties that were constructed before Cafritz Construction began the development of the Greenwich Forest Subdivision.[1] Staff notes the *Design Guidelines* state, "if the main house on a property is *contributing*, the entire property

[1] One of the defining characteristics of the Cafritz-constructed houses is they were all designed with attached garages that do not front the street, so they were not visible from the right-of-way.

is considered *contributing*," though there are no guidelines specific to accessory structures except for D5 which limits lot coverage and setbacks.

The existing garage has wood clapboard siding and a slate roof and is constructed on a brick foundation. There are pairs of wood casement windows under the front and rear gables and two fixed six-lite windows on the rear elevation. The wood overhead door includes a swing door with four-lites for pedestrian access. The existing wood siding and doors show signs of warping and some areas of rot.

The applicant proposes to create a loft/office space on a second floor and narrow the garage to limit its occupation to a single car. Proposed changes include:

- Remove the existing siding and install new fiber cement siding in a matching exposure;
- Remove the existing slate roof and install an EcoStar synthetic slate roof;
- Constructing a shed dormer on the left (south) roof slope;
- Removing and replacing the overhead door;
- Removing and replacing the existing wood windows; and
- Constructing a shed structure on the (right) south side of the garage.

Siding Replacement

The existing wood siding shows areas of cracked boards, warping, some locations of rot, primarily above the brick foundation. The application proposes to remove the existing wood siding and trim and install fiber cement siding and Boral synthetic trim in matching dimensions. The *Design Guidelines* are relatively lenient as applied to building materials, encouraging the use of in-kind replacement, but also allows for the use of "like materials;" and uses architectural shingles as an illustration of a "like material" provided it matches the scale, texture, and detail of the original material are consistent with the overall design "of the existing house."

While *Standard #6* requires that materials be replaced with matching design, color, texture and materials, the *Design Guidelines* do not require that a feature be replaced with matching materials. The administrative regulations require that in instances where there is a conflict between the *Standards* and district-specific guidelines, the guidelines control. Staff finds the proposed Hardie fiber cement siding will match the dimensions and result in an appearance that is close enough in most aspects to be considered a "like material" with the wood siding for the purposes of this district and its *Design Guidelines.* Staff recommends the HPC approve the siding replacement under the *Design Guidelines*. Staff also notes that the language of Guideline D7 twice states that the evaluation is specific to the "house" and omits any consideration of accessory of outbuildings or accessory structures.

Roof Replacement

The existing slate roof is identified by the applicant as being in "poor" condition. Staff's observations at a site visit, which only examined the exterior, identified several broken slates. The applicant proposes to remove the existing roof and install an EcoStar synthetic slate roof in its place.

The HPC has previously evaluated several roofing materials in the Greenwich Forest Historic District. A Preliminary Consultation the July 23, 2025 HPC meeting, considered an architectural shingle roof as a replacement for an original slate roof at 8012 Hampden Ln.[2] The HPC did not support replacing the slate roof with a Timberline architectural shingle roof, generally finding the proposed shingle did not match the details of the historic roof. Commissioners recommended replacing the slate in-kind (noting the material would qualify for the County's Historic Preservation Tax Credit) or that the applicant use alternative architectural shingles or synthetic slates that have been approved elsewhere in the historic district. Staff recognizes the HPC previously found EcoStar slates to be a compatible roof material for the rehabilitation and addition to the house at 7823 Overhill Rd.[3] Staff finds the same roof is appropriate for the replacement roof at the subject garage. It will match the general appearance, texture, and dimensions as the existing slates and, due to the garage's front gable configuration, will not be highly visible from the right-of-way. Staff recommends the HPC approve the roof replacement under 24A-8(d) and the *Design Guidelines*.

Dormer Construction

The applicant proposes to construct a shed dormer on the left (south) roof slope of the garage. The dormer will be 13' 5 ½" (thirteen feet, five and one-half inches) wide and is set back 4' (four feet) from the front wall plane. The dormer's roof slope is a low 2:12 and will have a metal roof. Siding and trim details on the front and rear elevations will match the new siding and trim, discussed above. On the left elevation, the applicant proposes to install fiber cement panel siding and four twelve-lite Weathershield Signature Series aluminum clad casement windows.

Staff finds the dormer will alter the massing of the garage, but will retain the outline of the original building, an identified objective of guideline D4; and does not raise the roof ridgeline as required in D17. Additionally, Staff finds the siding is identical to the fiber cement siding proposed to replace the deteriorated wood siding (discussed above), which will aid in making the design more cohesive. Finally, Staff finds the dormer's proposed aluminum clad windows are appropriate for new window openings in the Greenwich Forest Historic District, as outlined in D17, as they have a traditional grille pattern and provide sufficient dimensional details to approximate the appearance of a wood window.

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[2] The recording of the July 23, 2025 Preliminary Consultation for 8012 Hampden Ln. is available here: https://mncppc.granicus.com/player/clip/3229?publish_id=1b32f0fa-68bf-11f0-b7f5-005056a89546&redirect=true. The hearing begins at 2:47:42.

[3] The Staff Report and application for the house rehabilitation and addition at 7823 Overhill Rd. is available here: https://montgomeryplanning.org/wp-content/uploads/2021/10/I.N-7823-Overhill-Road-Bethesda-967939.pdf

Overhead Door Replacement

The existing overhead garage door is made of wood and has a swing door cut into the opening. The applicant proposes to remove this door and replace it with a partial width overhead door and a new swing door. A material specification was not provided for the new swing door, but the submitted building plans show it will be only 12' (twelve feet) wide, and the new swing door will be 3' 4" (three feet, four inches) wide. The proposed swing door looks like a vertical board door and has a foam core with a fiberglass exterior with an appearance that mimics stained mahogany.

Staff finds the existing garage door may be the historic configuration, as the only access to the garage interior is through this door. The door appears to suffer from some deterioration, particularly where the door meets the driveway. The *Design Guidelines* provide a very lenient requirement for replacing windows and doors and do not require that they have deteriorated beyond repair as is the case in most of the county's historic districts. The primary consideration is that the windows and doors are consistent with the design of the house and that windows have permanently affixed exterior divisions. Staff finds the proposed replacement swing door satisfies these criteria. The front elevation of the proposed garage shows a replacement overhead door with vertically oriented boards, but no material or detailed specifications were included in the application materials. Staff recommends the HPC add a condition to the approval of this HAWP that requires detailed overhead door specifications be submitted to Staff before issuing the final HAWP approval documents. Final approval authority to ensure the door design and materials are appropriate under D17 can be delegated to Staff. With the recommended condition, Staff finds the proposed door replacements are consistent with the *Design Guidelines*, 24A-8(d), and *Standard #2*.

Window Replacement

The garage has four window openings. There are a pair of wood casement windows under the gable on the front elevation. On the rear there are two wood six-lite casement windows on the ground floor and a paired set of casement windows under the gable. All of the windows appear to be historic. The applicant proposes to replace the existing windows with Weathershield Signature Series aluminum clad windows in matching dimensions and configurations.

As noted in the discussion of the door replacements, the Greenwich Forest *Design Guidelines*, do not require a determination that the windows have deteriorated beyond repair before they can be replaced. Guideline D17 is instead focused on preserving the design and character of the resource. Staff finds the proposed replacement windows match the design and dimensions of the existing windows and under the lenient requirements of D17 are appropriate. Staff recommends the HPC approve the replacement windows under the *Design Guidelines*, 24A-8(d), and *Standard #2*.

Shed Structure Construction

On the south (left) side of the garage, the applicant proposes to construct a metal shed roof, supported by painted wood posts. The existing planter will be covered with new pavers. The new roof will be minimally visible from the public right-of-way due to the garage's placement in relation to the house.

Staff finds the proposed shed will not have a substantial impact on the character of the garage. Its simple, open design does not detract from the historic form of the garage. Staff additionally finds the proposed materials are compatible with the character of the garage. The metal roof matches the dormer roof and the wood framing and posts are traditional materials. A specification for the stone pavers was not provided and Staff recommends the HPC include a condition to the approval of this HAWP to require the applicant to submit a detailed specification for the pavers to Staff for review and approval before issuing the final approval documents. Final approval authority to ensure the material is appropriate can be delegated to Staff. With the recommended condition, Staff finds the shed roof construction is compatible with the character of the garage and the *Design Guidelines*, 24A-8(b)(2) and (d), and *Standard #2*.

Staff Recommendation

Staff recommends the HPC approve with two (2) conditions the HAWP application with final approval delegated to staff:

1. A detailed specification for the overhead garage door must be submitted before issuing the final HAWP approval documents;
2. A detailed specification for the pavers under the shed roof must be submitted before issuing the final HAWP approval documents;

under the Criteria for Issuance in Chapter 24A-8(b)(1),(2), and (d), having found that the proposal is consistent with the *Greenwich Forest Historic District Guidelines* identified above, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the *Secretary of the Interior's Standards for Rehabilitation #2*;

and with the general condition that the applicant shall present an electronic set of drawings, if applicable, to Historic Preservation Commission (HPC) staff for review and stamping prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make any alterations to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

The existing property has a single family home and a detached garage. The scope of work is limited to the garage. The garage sits at the rear of the lot. It is finished with painted wood siding and a slate roof. The existing overhead door has a person door incorporated within it.

Description of Work Proposed: Please give an overview of the work to be undertaken:

The scope of work includes renovating the garage, replacing deteriorating siding with new painted Hardie Plank siding, new shed roof dormer, new roofing, new overhead door with incorporated person door, and new gable end windows. The scope also includes a new covered wood bin on the side of the garage at an existing raised planter.

Work Item 1: Siding and Windows / Doors

Description of Current Condition:	Proposed Work:
The existing painted wood bevel siding, painted wood trim, single pane wood windows, and existing painted wood overhead door with incorporated person door are all in poor condition.	Replace deteriorating wood siding and trim with new painted Hardie Plank siding and Boral synthetic trim, to replicate existing sizes and profiles. New clad wood windows with simulated divided lites to replace existing (style and size to match existing windows). New fiberglass overhead garage door with incorporated person door to replace existing.

Work Item 2: Dormer and Roof

Description of Current Condition:	Proposed Work:
The existing slate roof is in poor condition.	Replace existing slate shingle roof with new synthetic slate roofing. Add new dormer with metal shed roof at side of garage, with Boral 5/4x battens over Hardie Panel boards at vertical surfaces, to match existing main house rear addition.

Work Item 3: Covered Wood Bin

Description of Current Condition:	Proposed Work:
There is an existing raised planter at the side of the garage with timber retaining walls.	Install new P.T. posts with P.T. beam and rafters and new metal roof to create covered, open, firewood storage at the existing planter.

TRUNK GARAGE RENOVATION

7818 Overhill Road, Bethesda, MD 20814 Project #2555

HISTORIC AREA WORK #1155067

PROJECT DESCRIPTION

SCOPE OF WORK INVOLVES THE RENOVATION OF AN EXISTING DETACHED GARAGE FOR A SINGLE FAMILY HOME. WORK INCLUDES NEW SHED ROOF DORMER, NEW STAIR TO LOFT SPACE, REPLACEMENT OF FINISHES, NEW DOORS AND WINDOWS TO REPLACE EXISTING, AND A NEW COVERED WOOD BIN AT EXISTING RAISED PLANTER.

EXISTING SITE PHOTOS

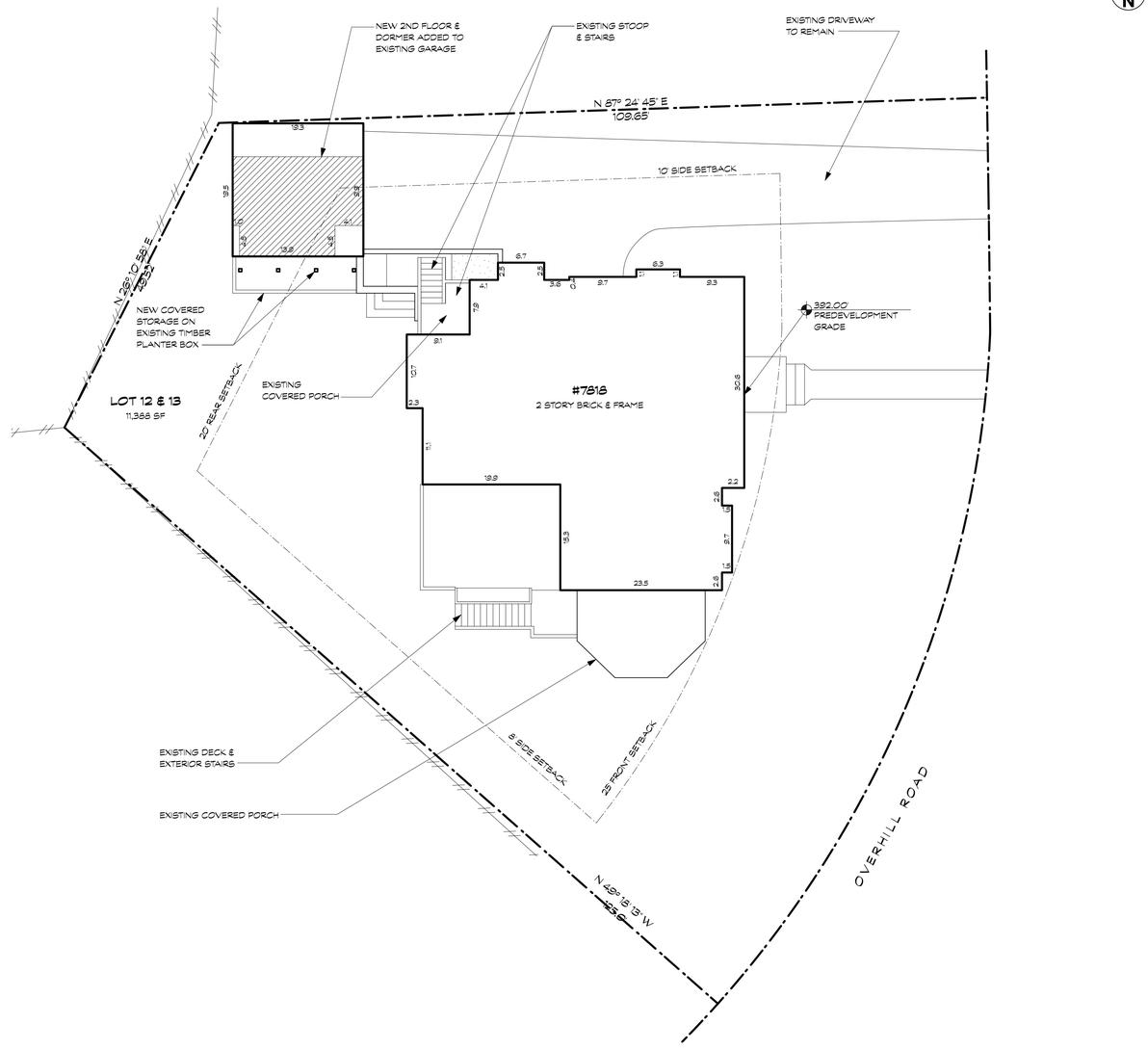
ZONING SITE PLAN

SCALE: 1" = 10'-0"

SITE PLAN BASED ON HORIZONTAL/BOUNDARY INFORMATION FROM HOUSE LOCATION PLAN BY SNIDER & ASSOCIATES DATED 12/16/2016 & FIELD OBSERVATIONS BY BENNETT FRANK MCCARTHY ARCHITECTS, INC.

LOTS 12 & 13
BLOCK U
SECTION 4
PLAT BOOK 4
PLAT NO. 376

ZONING SITE PLAN LEGEND
- SECOND FLOOR ADDITION
- PROPERTY LINE
- SETBACKS



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Tel: 301.585.2222
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OWNER
Bill & Allison Trunk
7818 Overhill Road
Bethesda, MD 20814

STRUCTURAL ENGINEER
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8555 16th St. Suite 200
Silver Spring, Maryland 20910
(301) 565-0543

MECHANICAL CONSULTANT
Gallant Mechanical
13001 Cleveland Drive
Rockville, Maryland 20850
(240) 750-4988

DRAWING LIST

REV.	SHEET	TITLE
	A000	COVERSHEET
	D100	DEMOLITION PLANS & ELEVATIONS
	A100	GARAGE PLANS & ELEVATIONS

DATE	ISSUE	REV.
4/20/2026	HAWP SET	

CERTIFICATION
DS

License # : **15218**
Expiration : **10/31/2027**

#2555 TRUNK GARAGE

ABBREVIATIONS

&	AND	CONC	CONCRETE	ELEV.	ELEVATION	JB	JUNCTION BOX	OH	OPPOSITE HAND	SPRK	SPRINKLER
@	AT	CONT	CONTINUOUS	ELEC	ELECTRICAL	LB	POUND	OSB	ORIENTED STRAND BOARD	STL	STEEL
AFF	ABOVE FINISHED FLOOR	D	DRYER	EXP	EXPANSION	LBW	LOAD BEARING WALL	PLAM	PLASTIC LAMINATE	TBD	TO BE DETERMINED
APT	APARTMENT	DH	DOUBLE HUNG	EQ	EQUAL	LVL	LAMINATED VENEER LUMBER	PLYWD	PLYWOOD	TEMP	TEMPER
BLDG	BUILDING	DIA	DIAMETER	ETR	EXISTING TO REMAIN	MARB	MARBLE	PT	PRESSURE TREATED	T&G	TONGUE AND GROOVE
BSMT	BASEMENT	DIM	DIMENSION	EX	EXISTING	MATL	MATERIAL	R	RISER	TOS	TOP OF SLAB
CJ	CONTROL JOINT	DN	DOWN	FF	FINISH FLOOR	MAX	MAXIMUM	REF	REFRIGERATOR	TYP	TYPICAL
CAB	CABINET	DR	DOOR	FIN	FINISH	MDO	MEDIUM DENSITY OVERLAY	RO	ROUGH OPENING	UNO	UNLESS NOTED OTHERWISE
CL	CENTER LINE	DS	DOWNSPOUT	FLR	FLOOR	MIN	MINIMUM	RQD	REQUIRED	VIF	VERIFY IN FIELD
CLG	CEILING	DTL	DETAIL	GA	GAUGE	MANU	MANUFACTURER	RM	ROOM	W	WASHER
CLR	CLEAR	DW	DISHWASHER	GWB	GYPSUM WALL BOARD	MTL	METAL	SC	SOLID CORE	W/	WITH
CMU	CONCRETE MASONRY UNIT	DWG	DRAWING	HB	HOSE BIB	MECH	MECHANICAL	SHT	SHEET	WC	TOILET / WATER CLOSET
COND	CONDITION	EIFS	EXTERIOR INSULATION FINISHING SYSTEM	HC	HOLLOW CORE	NC	NOT IN CONTRACT	SHWR	SHOWER	WD	WOOD
				HT	HEIGHT	NTS	NOT TO SCALE	SIM	SIMILAR	WO	WITHOUT
				HDWR	HARDWARE	OC	ON CENTER	SPEC	SPECIFICATION	WWM	WELDED WIRE MESH

SYMBOLS

- 1 — DOOR TAG: DOOR REFERENCE (SEE DOOR SCHEDULE)
- A — WINDOW TAG: WINDOW REFERENCE (SEE WINDOW SCHEDULE)
- 1 — WALL TAG: WALL TYPE REFERENCE (SEE WALL / PARTITION TYPES)
- ℄ — CENTERLINE
- X / A--- — DRAWING CALL-OUT: DRAWING NUMBER, SHEET REFERENCE
- X / A--- — ELEVATION CALL-OUT: VIEW DIRECTION, DRAWING NUMBER, SHEET REFERENCE
- A / D / C / B — ELEVATION CALL-OUT: VIEW DIRECTION, DRAWING NUMBER, SHEET REFERENCE
- #X, A--- — ELEVATION MARKER: ELEVATION
- XXX'-XX X/X" BENCHMARK — LOCATION REFERENCE, SPOT LOCATION
- X / A--- — SECTION CUT CALL-OUT: DRAWING REFERENCE, SECTION CUT LOCATION, SHEET REFERENCE, DIRECTION OF VIEW

PROJECT CODES & USES

JURISDICTION:
District of Columbia

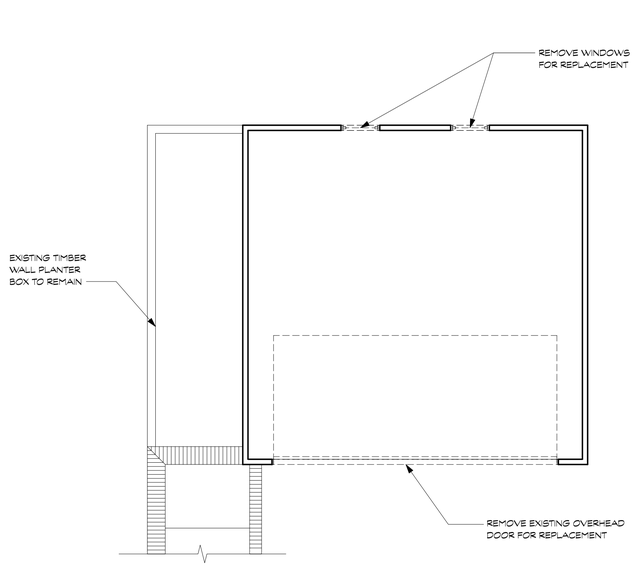
ZONE: R-1-B

BUILDING CODE:
2017 DC Construction Codes
Including:
2015 IRC & ICC Model Codes
2014 NEC & I2013 ASHRAE 90.1
As Amended by DCMR Title 12

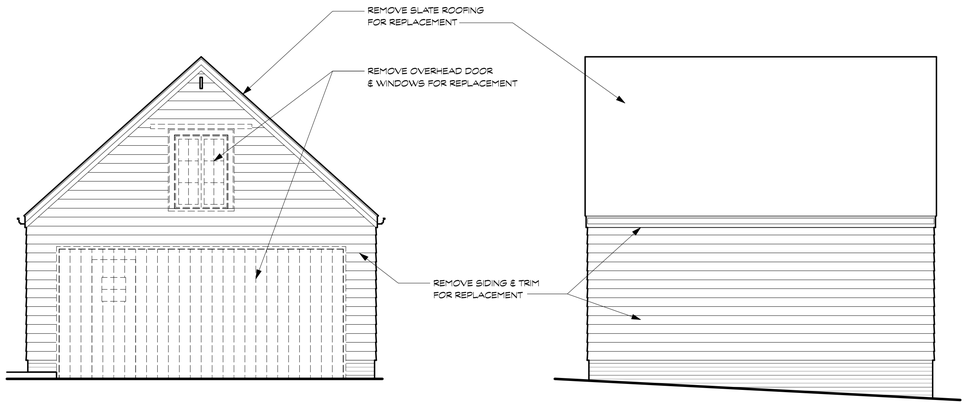
BUILDING USE GROUP:
Single Family, Detached

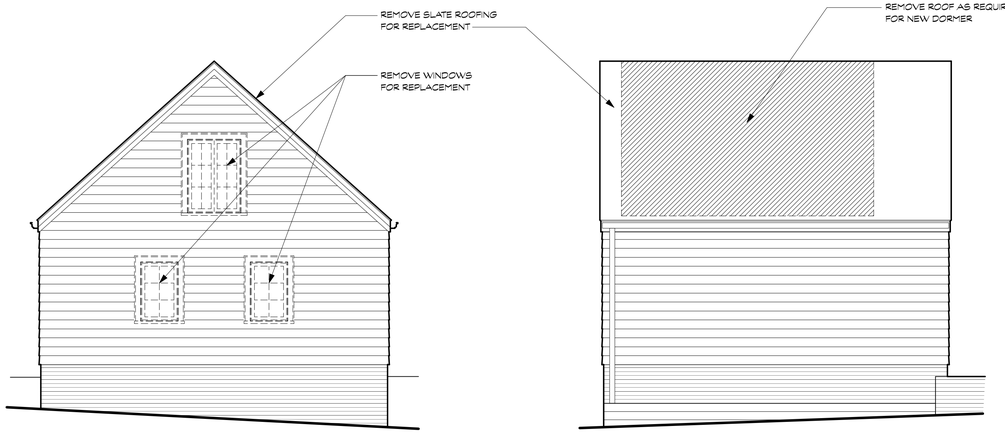
CONSTRUCTION TYPE:
5B- Combustible, Unprotected

FIRE SUPPRESSION SYSTEM: N/A



1 DEMOLITION PLAN
Scale:1/4" = 1'-0"





2 DEMOLITION ELEVATIONS
Scale:1/4" = 1'-0"

WALL LEGEND

- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING WALLS AND PARTITIONS TO BE REMOVED
- NEW WOOD FRAMED WALLS AND PARTITIONS
- NEW LOW WALLS
- NEW CMU WALLS

GENERAL NOTES:

1. DO NOT SCALE THE DRAWINGS
2. NEW CONSTRUCTION DIMENSIONED TO FRAMING (U.N.O)
3. EXISTING CONSTRUCTION DIMENSIONED TO FINISH (U.N.O)

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DATE	ISSUE - REMARKS
4/20/2026	HAWP SET

DS

ARCHITECT 15218 STATE OF MARYLAND

I certify that these contract documents were prepared under my supervision or approved by me and I am a duly licensed registered architect under the laws of the state of Maryland.

License # : **15218**

Expiration : **10/31/2027**

TRUNK GARAGE RENOVATION

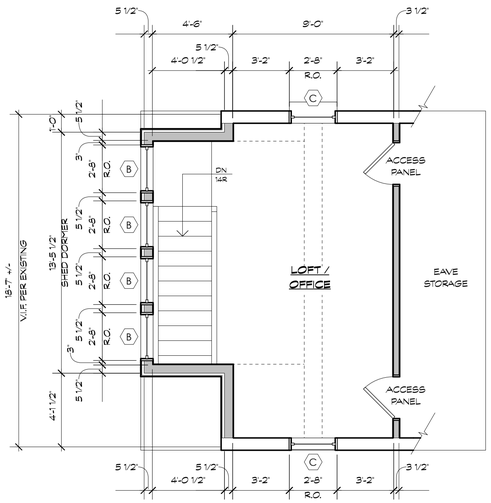
7818 Overhill Road, Bethesda, MD 20814
Project #2555

20 APRIL 2026

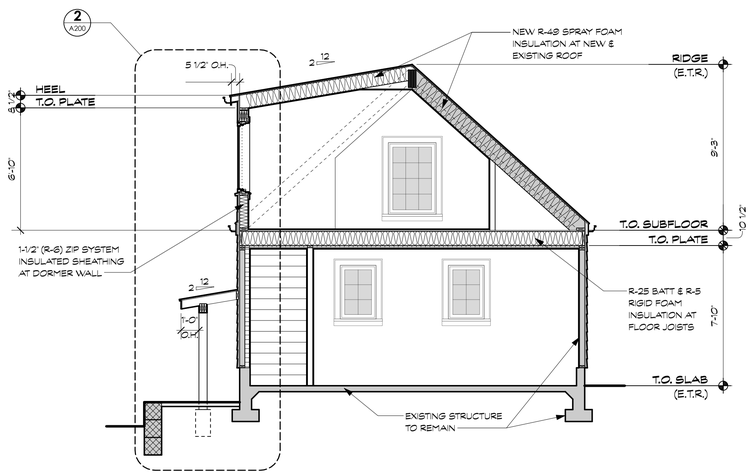
HAWP SET

DEMOLITION PLANS & ELEVATIONS

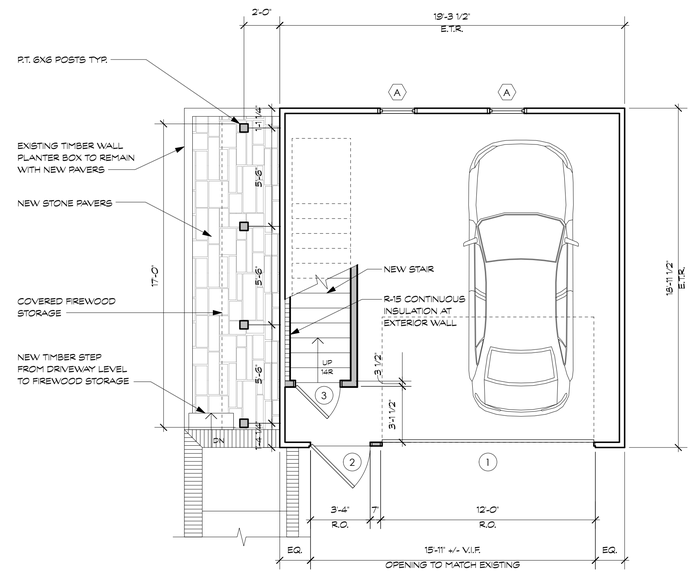
D100



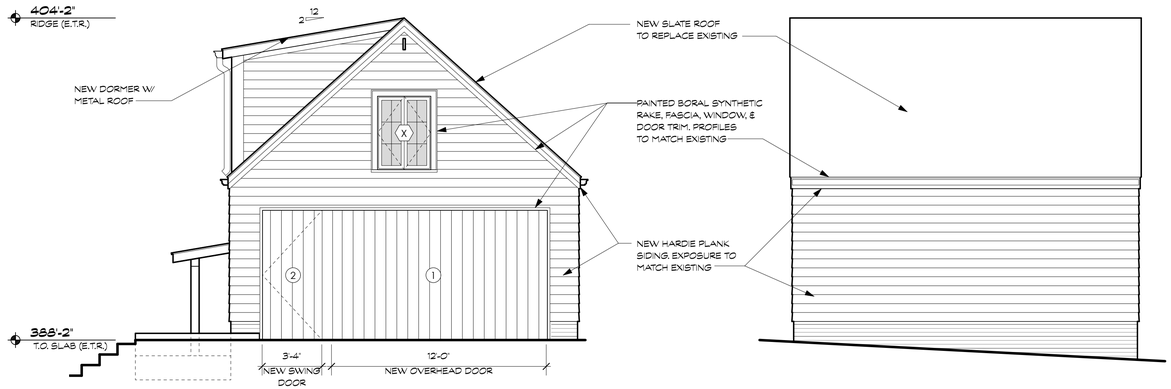
PROPOSED GARAGE
PLAN - UPPER LEVEL
2 Scale:1/4" = 1'-0"

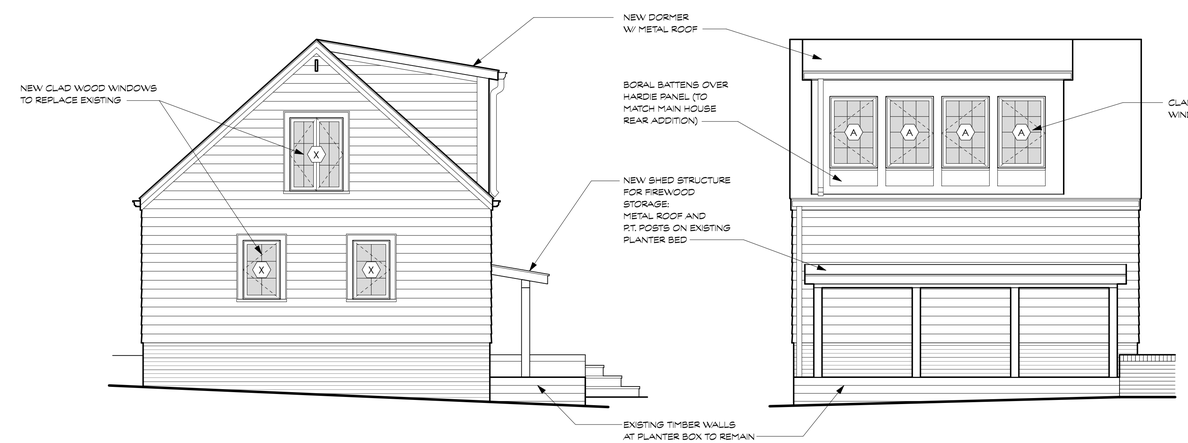


PROPOSED GARAGE SECTION
4 Scale:1/4" = 1'-0"



PROPOSED GARAGE
PLAN - LOWER LEVEL
1 Scale:1/4" = 1'-0"





PROPOSED GARAGE ELEVATIONS
3 Scale:1/4" = 1'-0"

WALL LEGEND

- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING WALLS AND PARTITIONS TO BE REMOVED
- NEW WOOD FRAMED WALLS AND PARTITIONS
- NEW LOW WALLS
- NEW CMU WALLS

GENERAL NOTES:

1. DO NOT SCALE THE DRAWINGS
2. NEW CONSTRUCTION DIMENSIONED TO FRAMING (U.N.O)
3. EXISTING CONSTRUCTION DIMENSIONED TO FINISH (U.N.O)

BFM architecture
1400 Spring Street, Suite 320
Silver Spring, MD 20910-2755
Tel: 301.585.2222 | bfmarch.com

DATE	ISSUE - REMARKS
4/20/2026	HAWP SET

DS

I certify that these contract documents were prepared under my supervision or approved by me and I am a duly licensed registered architect under the laws of the state of Maryland.

License # : **15218**

Expiration : **10/31/2027**

TRUNK GARAGE RENOVATION

7818 Overhill Road, Bethesda, MD 20814
Project #2555

20 APRIL 2026

HAWP SET

GARAGE PLANS & ELEVATIONS

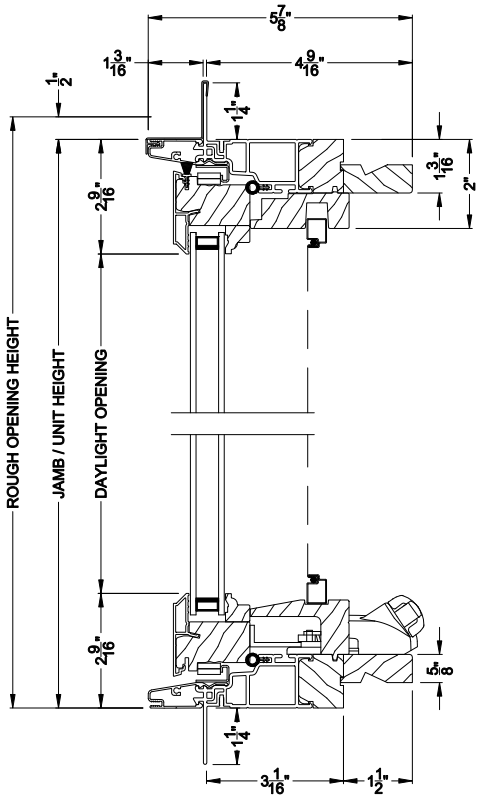
A100

Weather Shield®

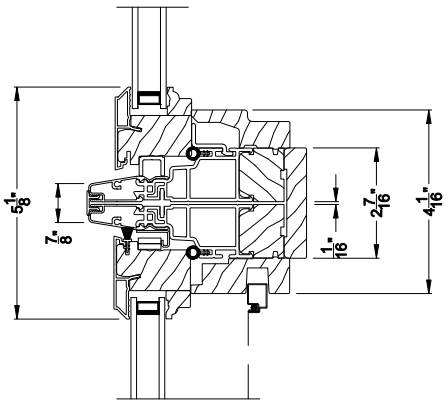
Signature Series™

Casement Windows

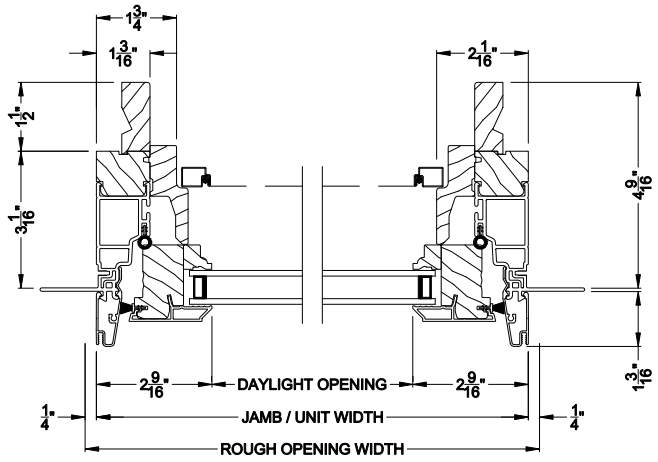
CROSS SECTION DETAILS



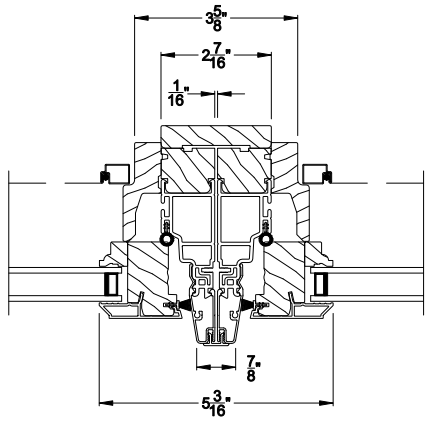
SIGNATURE CASEMENT WINDOW (8219)
Vertical Section



SIGNATURE CASEMENT WINDOW
Horizontal Stack Section - Transom Stack over Casement



SIGNATURE CASEMENT WINDOW (8219)
Horizontal Section



SIGNATURE CASEMENT WINDOW
Vertical Mull Section

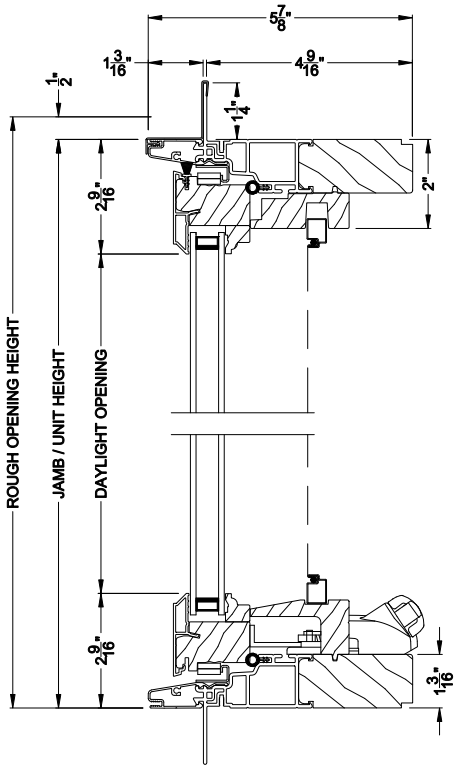
Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Weather Shield®

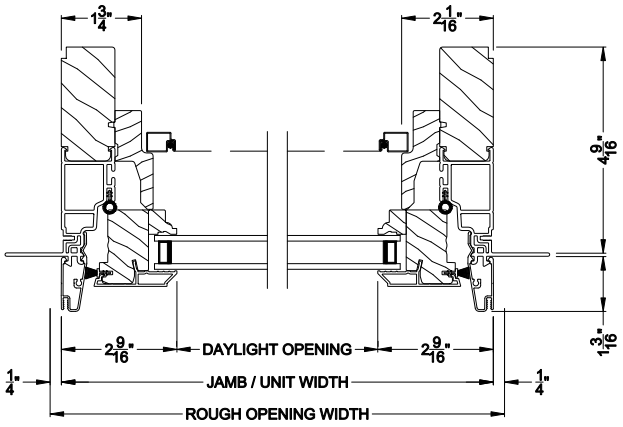
Signature Series™

Casement Windows

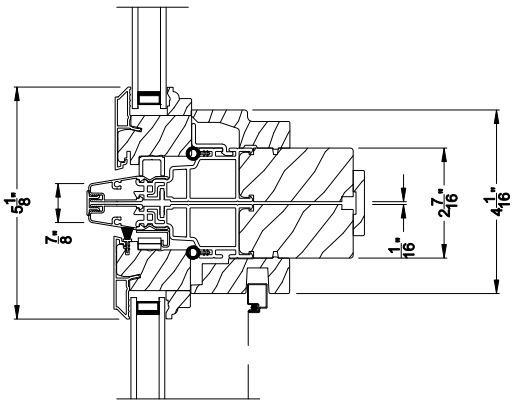
CROSS SECTION DETAILS



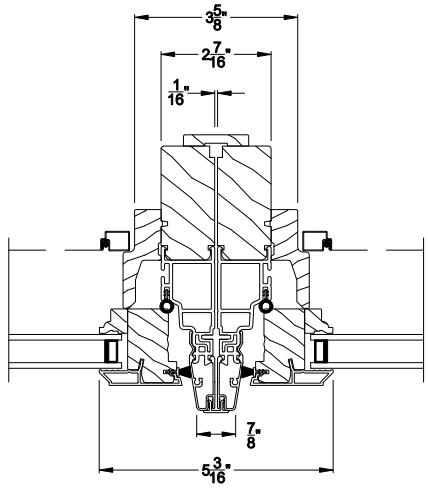
SIGNATURE CASEMENT WINDOW (8219)
Vertical Section - 5/4 Jamb



SIGNATURE CASEMENT WINDOW (8219)
Horizontal Section - 5/4 Jamb



SIGNATURE CASEMENT WINDOW
Horizontal Stack Section - Transom Stack over Casement



SIGNATURE CASEMENT WINDOW
Vertical Mull Section

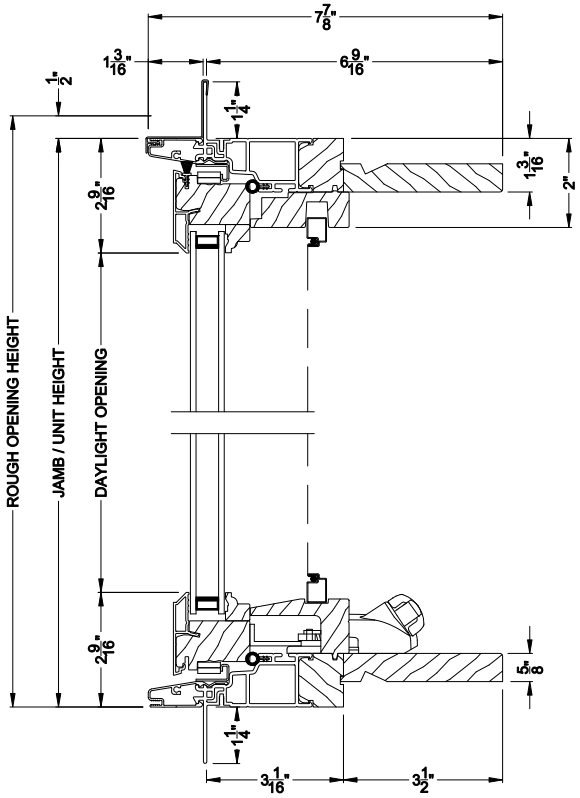
Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Weather Shield®

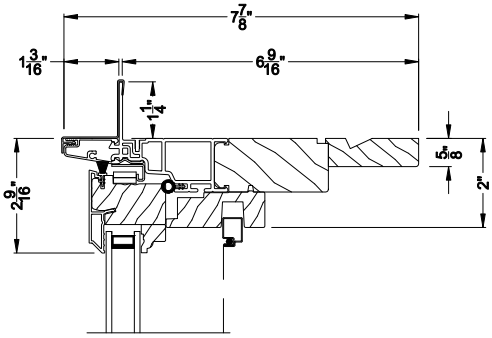
Signature Series™

Casement Windows

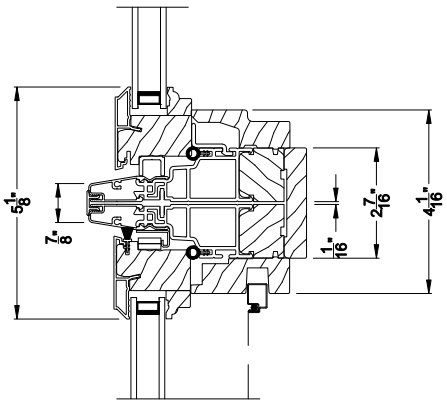
CROSS SECTION DETAILS



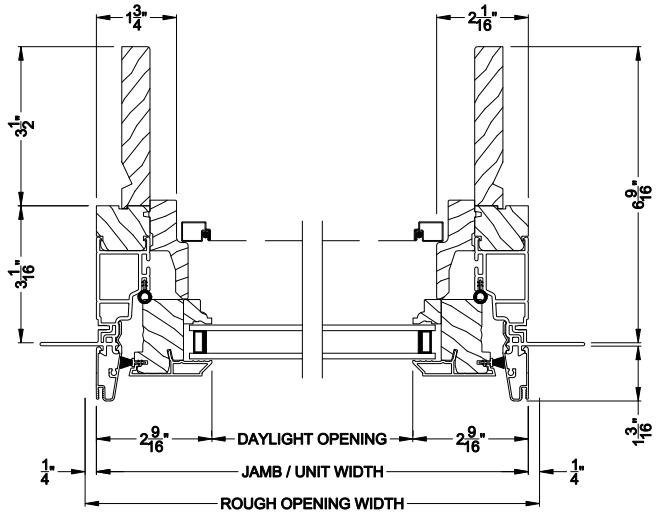
SIGNATURE CASEMENT WINDOW (8219)
Vertical Section - 6-9/16" jamb



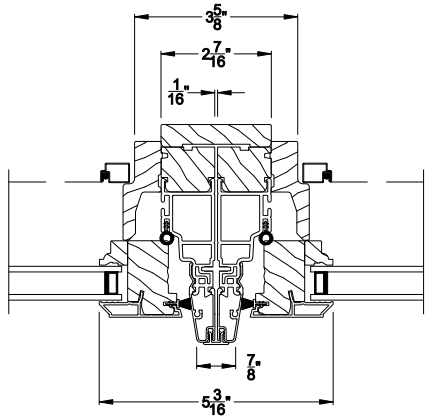
SIGNATURE CASEMENT WINDOW
Vertical Section - 5/4 jamb option with extension



SIGNATURE CASEMENT WINDOW
Horizontal Stack Section - Transom Stack over Casement



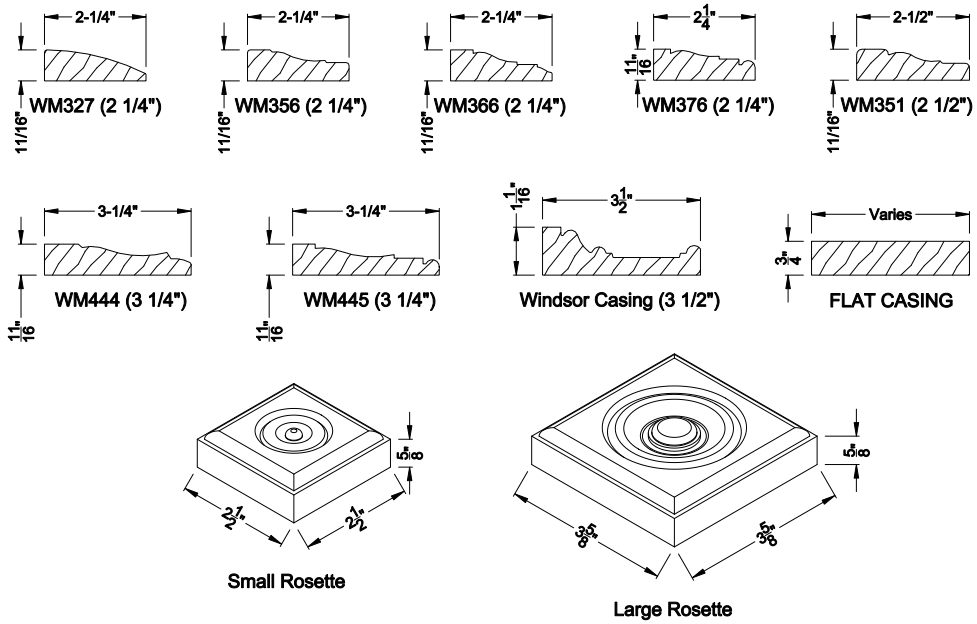
SIGNATURE CASEMENT WINDOW (8219)
Horizontal Section - 6-9/16" jamb



SIGNATURE CASEMENT WINDOW
Vertical Mull Section

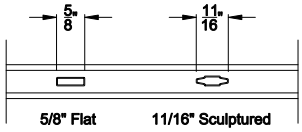
Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Interior Wood Trim Options

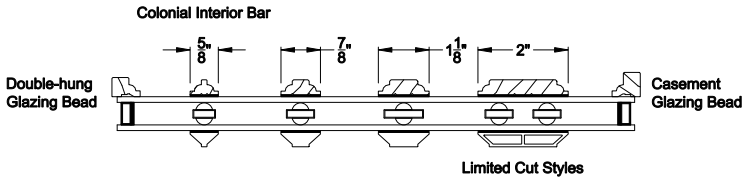


Divided Lite Options

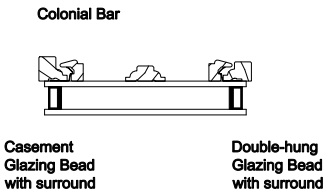
Grilles Between the Glass

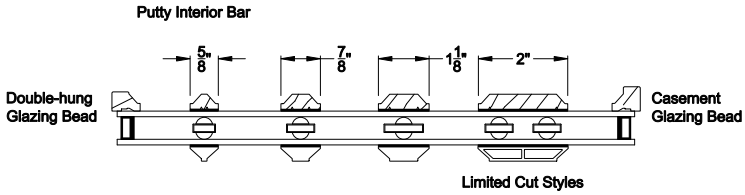


Simulated Divided Lites



Wood Perimeter Grill





Note: All dimensions are approximate. Weather Shield reserves the right to change specifications without notice.

Classic Craft® Artíssa Collection®™ in Mahogany Grain

Style No. CCR8100 | 8' Full Plank | Glass Name: No Glass

Overview

Features & Literature

Reviews & Questions

Where to Buy

Design Your Door

Order Finish Samples

PAINTED FINISH, PAINT COLOR TBD

STAIN OPTIONS


Acorn


Wildflower Honey


Rustic Clay


Barley


Mulberry


Autumn Harvest


New Earth


Driftwood


Raven

PAINT OPTIONS


Estuary


Obsidian


Peregrine


Arctic Ice

Product Overview

Pioneers in Sustainable Roofing Since 1993

Why Choose EcoStar?

- Innovators in synthetic roofing since 1993
- Breadth of slate, shake, concrete and clay product offering
- Made with up to 80% upcycled polymer & rubber (not tires)
- Designed with up to 6" headlap for installation integrity
- Easy application keeps installation costs down
- Proven products providing superior protection against fire, ice, snow, wind, rain and hail
- Manufactured in the USA

Protection Overview

- Miami Dade prolonged and accelerated weathering @ 4,500 hours
- Miami Dade Wind TAS100 & TAS125 (NOA # 23-0601.01)
- Canadian Code Compliance Evaluation (CCMC-14174-R)
- UL listed Class C or A fire resistance (UL 790)
- UL Class 4 (highest rating) hail impact resistance (UL 2218)
- Job lot control produces uniform roof tile weathering
- Manufactured to ISO 9001:2015 Quality Management Standard
- 50-Year Material Warranty
- 50-Year Transferable Labor and Material Warranty available

Niagara Slate in Stormy Gray Blend

Niagara Shake in Custom Blend

Concrete Flat Tile in Black

Slate Products

- Realistic appearance of natural slate roofing
- Weighs significantly less than natural slate systems
- Staggered and offset installations accentuate roof texture and depth
- Standard Shadow Line: 12"w and 10"w Traditional, 12", 9" and 6" Random-Width Blend, 12" Chisel Point, Beveled Edge and Beaver Tail
- Enhanced Shadow Line: 14"w, 12"w and 10"w Niagara and Random-Width Blend with increased 5/8" thickness creates bold shadow lines

Shake Products

- Look of traditional wood shake while providing an eco-friendly, durable alternative to wood
- Can be installed to create a unique replication of staggered cedar shake
- No interlacing of underlayment required
- Aspen Blend Shake replicates thick, hand-split wood by using a combination of 2/3 Shake and 1/3 Shake Plus tiles
- Available with standard or enhanced shadow lines

Concrete & Clay Roofing Products

Concrete Flat Tile & Island Groove Clay

- The look of modern roofing
- Direct to deck application – no battens required
- Lightweight – no loading service required
- Competitive installed cost/square
- Color through material – no recoating required
- Low waste factor – no breakage

Installation Benefits

- Readily available with minimal lead times
- Easy application keeps installation costs down
- Products require minimal maintenance
- Factory pre-blended for color & width
- Competitive installed cost/square

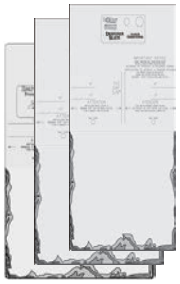
NOTE: Class A product lines approved for Miami Dade, Class C product lines approved to Florida. Island Groove Clay and Concrete Flat Tile not tested to CCMC.

	Class C Fire-Rated Products						Class A Fire-Rated Products						
	Slate	Niagara Slate	Shake	Niagara Shake	Concrete Flat Tile	Island Groove	Slate	Niagara Slate	Shake	Shake Plus	Niagara Shake	Concrete Flat Tile	Island Groove
Recycled Material	80%						25%						
Tile Width	12", 10", 9", 6"	14", 12", 10"	12", 9", 6" blend	10", 9", 8", 7" blend	12"	12"	12", 10", 9", 6"	14", 12", 10"	12", 9", 6" blend	12", 9", 6" blend	10", 9", 8", 7" blend	12"	12"
Profile	Solid	Cavity-back	Solid	Cavity-back	Cavity-back	Cavity-back	Solid	Cavity-back	Solid	Cavity-back	Cavity-back	Cavity-back	Cavity-back
Tile Thickness	1/4"	5/8"	3/8"	3/4"	3/4"	3/4"	1/4"	5/8"	3/8"	3/4"	3/4"	3/4"	3/4"
Maximum Reveal	7" (6")	10" (9")	8" (7")	10" (9")	10" (9")	10" (9")	8" (7", 6")	10" (9")	9" (8", 7")	9" (8", 7")	10" (9")	10" (9")	10" (9")
Weight/Sq at Max. Reveal	275 lbs.	250 lbs.	261 lbs.	216 lbs.	233 lbs.	238 lbs.	308 lbs.	290 lbs.	277 lbs.	371 lbs.	250 lbs.	279 lbs.	279 lbs.
Impact Rating	Class 4						Class 4						
Miami-Dade	No						Yes						No
Colors	12						14						
Color Blends	12						12						
Cool Roof Colors	No						Yes						
Custom/ Marbled	No						Yes						

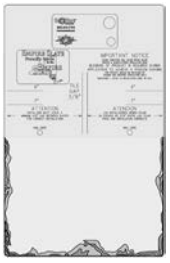
Slate Profiles:


12" Traditional Slate

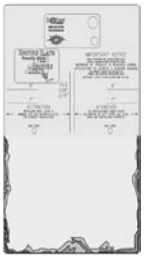

10" Traditional Slate

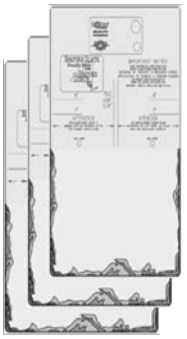

Random-Width Blend (6", 9", 12" Blend)


Designer Series (Beaver Tail, Beveled Edge, Chisel Point)

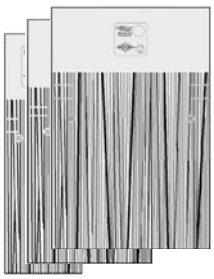

14" Niagara Slate

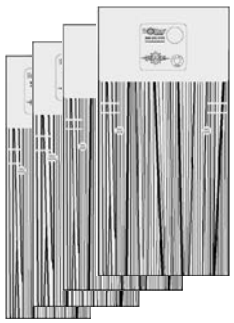

12" Niagara Slate


10" Niagara Slate

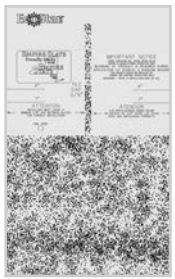

Niagara Slate Random-Width Blend (10", 12", 14" Blend)

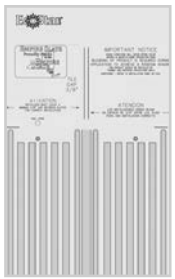
Shake Profiles:


Traditional Shake, Shake Plus and Aspen Blend Shake (6", 9", 12" Blend)


Niagara Shake (7", 8", 9", 10" Blend)

Concrete & Clay Profiles:


12" Concrete Flat Tile


12" Island Groove Clay

EcoStar LLC

42 Edgewood Drive | Holland, NY 14080 | 800.211.7170 | www.ecostarllc.com

Product Data

FLASHING & SHEET METAL | 07 60 00

PAC-CLAD PETERSEN
A CARLISLE COMPANY

PRODUCT NAME

PAC-CLAD prefinished aluminum and steel sheet and coil.

MANUFACTURER

Petersen Aluminum Corporation
1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-323-1960
847-228-7150
F: 800-722-7150
pac-clad.com

PRODUCT DESCRIPTION

PAC-CLAD is a pre-finished specification-grade aluminum sheet or commercial-quality extra-smooth galvalume steel sheet, primed and coated with Petersen's full-strength fluoropolymer (PVDF) high-performance coating system of 1.0 mil (0.025 mm) total dry film thickness and, on the reverse side, a wash coat of 0.3 -0.4 mil (0.008-0.01 mm) dry film thickness.

BASIC USE: PAC-CLAD material is for general sheet metal use in building applications, as well as formed roofing and wall panels produced by Petersen Aluminum. PAC-CLAD is frequently used in the following forms:

- Roofing and mansard panels
- Wall panels
- Fascia and soffit panels
- Gravel stops and copings
- Store front components
- Flashing and trim

MATERIALS AND FINISHES: PAC-CLAD consists of either Aluminum Association specification ASTM B209 aluminum sheet, temper H14 or H34; hot-dipped ASTM A 653 Grade A structural quality steel sheets, or ASTM A792 Galvalume commercial weight. PAC-CLAD sheets, coil and panels are coated with a 2-coat system using a combination of 70% Kynar 500®/ Hylar 5000® polyvinylidenefluoride (PVDF), acrylic resins, pigments and solvents. The system consists of Fluropon® top coat applied over a polyester primer. A wash coat is applied to the reverse side for additional protection.

STANDARD SIZES: Aluminum is available in .032" - .063" (0.8 – 1.6 mm) thickness in 48" (1219 mm) widths. Steel is available in 24 and 22 GA in 48" (1219 mm) widths.

COLORS: For standard colors, refer to Table on Page 2. Custom match colors are available in minimum quantities of 5000 lb (2268 kg) for standard gauges.

FINISH: Sheens available – Dull, matte and specular, gloss rating of 25-35% at 60° viewing angle.

TEXTURES AVAILABLE: Smooth

LIMITATIONS: PAC-CLAD performance depends on the integrity of the coating film. PAC-CLAD should not be used in areas of high abrasion or where it will be subject to mechanical damage.

TECHNICAL DATA

APPLICABLE STANDARDS:

- Aluminum Association Specifications for Aluminum Structures
- Specifications for Cold Formed Steel Design Manual
- American Architectural Manufacturers Assoc – AAMA 621-02 and AAMA 2605-17A

AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM)

- ASTM A792/A792M Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot Dip Process
- ASTM A755/A755M – Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil Coating Process for exterior Exposed Building Products
- ASTM B209 Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate

PHYSICAL QUALITY

- ASTM D 6578/6578M Graffiti resistance
- ASTM G7 Film integrity
- ASTM D 662 Erosion resistance
- ASTM B117-95 – Operating Salt Spray (Fog) Apparatus
- ASTM D 523 – Standard Test for Specular Gloss
- ASTM D 968 – Standard Test Methods for Abrasion Resistance for Organic Coatings by Falling Abrasive
- ASTM D 2244 – Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
- ASTM D 2247 – Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
- ASTM D 2794 – Standard Test Method for Resistance of organic Coatings to the Effects of Rapid Deformation (Impact)
- ASTM D 4214 – Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test
- ASTM D 4145 - Standard Test Method for Coating Flexibility of Prepainted Sheet
- ASTM D 3359 - Standard Test Methods for Measuring Adhesion by Tape Test
- ASTM D 1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- ASTM D 522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
- ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials

NATIONAL COIL COATERS ASSOCIATION (NCAA)

- NCAA Procedure No. 11-5
- NCCA Procedure No. 11-18
- NCCA Technical Bulletin No. 11-6

SHEET METAL & AIR CONDITIONING CONTRACTORS

NATIONAL ASSOCIATION (SMACNA) - Architectural Sheet Metal Manual

Physical Properties of Fluoropolymer Coating – See PAC-CLAD Chart on Page 2.

INSTALLATION

Methods: Fabricate and install PAC-CLAD sheet metal in accordance with SMACNA sheet metal practices. PAC-CLAD can be cut, formed, nailed, screwed or riveted using conventional hand or power tools. PAC-CLAD coatings must be mechanically removed if soldering or welding is necessary. For best results, cutting edges should be kept sharp, clean, properly dressed and closely aligned.

A strippable vinyl film can be applied for protection during fabrication and installation if necessary. Vinyl film may remain on the coating during fabrication and installation. Vinyl must be removed prior to or immediately after installation.

1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-PAC-CLAD
F: 800-722-7150

1255 S. Caton, Suite B
Baltimore, MD 21227
P: 800-344-1400
F: 301-953-7627

10551 PAC Road
Tyler, TX 75707
P: 800-441-8661
F: 903-581-8592

102 Northpoint Parkway
Acworth, GA 30102
P: 800-272-4482
F: 770-420-2533

1800 S. 7th Ave., Suite 130
Phoenix, AZ 85007
P: 833-750-1935
F: 602-254-6504

9817 233rd Ave. E Suite A
Bonney Lake, WA 98391
P: 833-750-1935

Product Data

FLASHING & SHEET METAL | 07 60 00

PAC-CLAD PETERSEN
A CARLISLE COMPANY

PAC-CLAD is a finished material; care must be taken during fabrication and erection to avoid damage to the surface. Proper bend radii must be used in fabrication.

AVAILABILITY & COST

AVAILABILITY: PAC-CLAD sheets are available nationwide and are stocked in standard colors and gauges. Special finishes require additional time for color matching and approvals. **Note:** 5000 pound minimum for non-standard colors. Delivery time and price to be quoted upon inquiry.

COST: Contact the manufacturer for specific cost.

WARRANTY

A 35-year non-prorated warranty covering color, fade, chalking and film integrity is available at no additional cost. Please see our website for sample warranty. Warranty terms vary slightly for Award Blue and Cardinal Red and metallic finishes. The warranty is issued on a per-project basis upon request. Contact Petersen for specific requirements.

MAINTENANCE

Maintenance is not required. The panel finish is a member of the Teflon family and is self-cleaning. If cleaning is desired, panels can be washed with mild soap and water followed by a clean water rinse.

TECHNICAL SERVICES

Technical services are available from Petersen Aluminum Corporation and regional architectural representatives.

STORAGE & PACKAGING

PAC-CLAD sheet and coil should be stored in a clean, dry location. Suitable facilities at the jobsite for storage and protection of the material should be provided and should be well ventilated.

Store material out of traffic areas to prevent dents, bending, abrasion, etc. Materials should be protected with waterproof paper cover – plastic should be avoided to eliminate condensation. Keep the material off the ground in an inclined position.

PAC-CLAD COLOR AVAILABILITY

REFLECTIVITY	0.70 to 0.05	3-YEAR EXPOSURE	0.69 to 0.04
EMISSIVITY	0.90 to 0.14	SRI	0 to 85

STEEL		ALUMINUM	
24 GA.	44 colors	.032	30 colors
22 GA.	15 colors	.040	24 colors
		.050	21 colors
		.063	6 colors

The chart above indicates performance ranges and availability of all PAC-CLAD colors and materials. For complete information visit pac-clad.com.

STANDARD COLORS

PREMIUM COLORS

* Denotes PAC-CLAD Cool Color

NOTE: Colors above are not exact representations of actual PAC-CLAD colors. Ask a PAC representative for a color-chip chart or painted metal samples before making final color selection.

1005 Tonne Road
Elk Grove Village, IL 60007
P: 800-PAC-CLAD
F: 800-722-7150

1255 S. Caton, Suite B
Baltimore, MD 21227
P: 800-344-1400
F: 301-953-7627

10551 PAC Road
Tyler, TX 75707
P: 800-441-8661
F: 903-581-8592

102 Northpoint Parkway
Acworth, GA 30102
P: 800-272-4482
F: 770-420-2533

1800 S. 7th Ave., Suite 130
Phoenix, AZ 85007
P: 833-750-1935
F: 602-254-6504

9817 233rd Ave. E Suite A
Bonney Lake, WA 98391
P: 833-750-1935

HardiePlank® Lap Siding Product Description

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

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

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

Select Cedarmill©

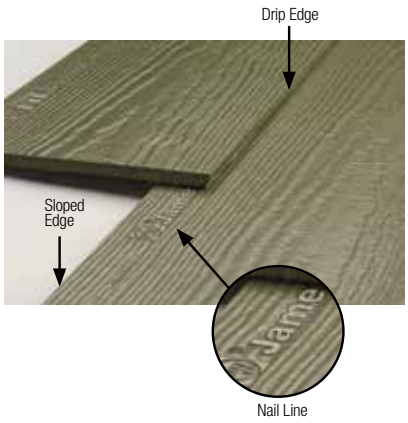
Smooth

Beaded Cedarmill©

Beaded Smooth

Custom Colonial Roughsawn®

Custom Colonial Smooth®



Hardie® Plank Lap Siding — Submittal Form 01

Submitted to: .....

Project Name: .....

Submitted by: .....

Date: .....

☐ **HZ5® Product Zone** ☐ **HZ10® Product Zone**

Product Width: ☐ **5-1/4**in ☐ **6-1/4**in ☐ **7-1/4**in ☐ **8**in ☐ **8-1/4**in ☐ **9-1/4**in ☐ **12**in

Product Finish: ☐ **Primed** ☐ **ColorPlus® Technology**

Product Texture: ☐ **Smooth** ☐ **Select Cedarmill®** ☐ **Colonial Roughsawn®** ☐ **Colonial Smooth®** ☐ **Rustic Cedar**

Hardie® Plank Lap Siding — Specification Sheet 01

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PLANK LAP SIDING

Manufacturer

James Hardie Building Products, Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

- Noncombustible
- Dimensionally Stable
- Resists damage from pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

Use

Hardie® fiber-cement lap siding is used as exterior wall covering.
The product complies with IBC Section 1403.9 and IRC Section R703.10.
The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC)

Description

Hardie® Plank lap siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Plank lap siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (in)	Length	Thickness (in)
Hardie® Plank lap siding*	5-1/4, 6-1/4, 7-1/4, 8, 8-1/4, 9-1/4, 12	12 feet	5/16

** HZ5: 9-1/4, 12 only available primed HZ10: 5-1/4, 9-1/4, 12 only available primed.*

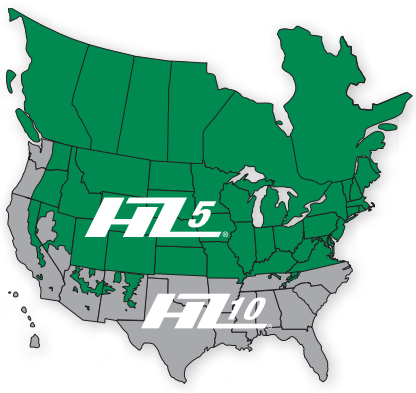
Weight2.31 lbs. per square foot

Texture & Finish

Hardie® Plank lap siding comes in a variety of textures and finishes. The product is available in smooth or wood grain texture. Additional textures are available on a regional basis. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie® Plank lap siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft^3	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
			Equilibrium conditioned, psi	>1450 psi	
THERMAL	Thermal Conductivity	ASTM C177	(BTU/(hr·ft°F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K_{eff})		6.62
	Thermal Resistance		R=1/ K_{eff}		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
			International Building Code® class		A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Plank lap siding in accordance with:

- Hardie® Plank lap siding installation instructions
- ICC-ES ESR 2290
- Requirements of authorities having jursidiction

Warranty

Hardie® Plank lap siding: 30-year, Non-Prorated, Limited Warranty
ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051

CREATING CUSTOM LOOKS WITH TRUEXTERIOR TRIM IS JUST AS EASY AS IT IS WITH TRUEXTERIOR SIDING.

Our trim ensures you'll never run out of ways to embellish your home design while outlasting traditional wood. Neighborhood bragging rights meet long-term livability.

5/8 TRIM SIZES	
Nominal	Actual
5/8 x 4	5/8" x 3-1/2"
5/8 x 6	5/8" x 5-1/2"
5/8 x 8	5/8" x 7-1/4"
5/8 x 10	5/8" x 9-1/4"
5/8 x 12	5/8" x 11-1/4"

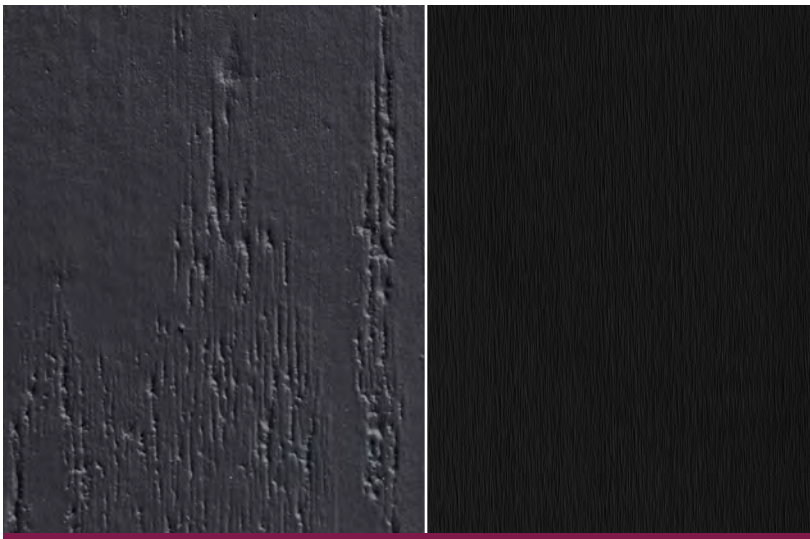
1X TRIM SIZES	
Nominal	Actual
1 x 3	3/4" x 2-1/2"
1 x 4	3/4" x 3-1/2"
1 x 5	3/4" x 4-1/2"
1 x 6	3/4" x 5-1/2"
1 x 8	3/4" x 7-1/4"
1 x 10	3/4" x 9-1/4"
1 x 12	3/4" x 11-1/4"

5/4 TRIM SIZES	
Nominal	Actual
5/4 x 3	1" x 2-1/2"
5/4 x 4	1" x 3-1/2"
5/4 x 5	1" x 4-1/2"
5/4 x 6	1" x 5-1/2"
5/4 x 8	1" x 7-1/4"
5/4 x 10	1" x 9-1/4"
5/4 x 12	1" x 11-1/4"

2X TRIM SIZES	
Nominal	Actual
2 x 2	1-1/2" x 1-1/2"
2 x 4	1-1/2" x 3-1/2"
2 x 6	1-1/2" x 5-1/2"
2 x 8	1-1/2" x 7-1/4"
2 x 10	1-1/2" x 9-1/4"
2 x 12	1-1/2" x 11-1/4"

AVAILABLE IN 16-FOOT LENGTHS

IDEAL FOR FASCIA, SOFFITS, RAKE BOARDS AND DOOR TRIM



WOODGRAIN ON ONE SIDE & SMOOTH FINISH ON THE REVERSE

TruExterior Siding & Trim comes pre-primed and does require paint.

WINDOW POCKET RABBETED TRIM

The rabbeted groove helps trim to sit flush over the window's nailing flange, eliminating the need for cuts or shims.

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width	Window Pocket (W' x W")
5/4 x 4	1"	3-1/2"	3/16" x 1-7/8"
5/4 x 6	1"	5-1/2"	3/16" x 1-7/8"
5/4 x 8	1"	7-1/4"	3/16" x 1-7/8"

Available in 16-foot lengths

SKIRT BOARD

Provides a decorative yet functional way to create the required clearance between siding and grade.

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width
1 x 6	3/4"	5-1/2"
1 x 8	3/4"	7-1/4"
5/4 x 6	1"	5-1/2"
5/4 x 8	1"	7-1/4"

Available in 16-foot lengths

TruExterior Accessories come pre-primed and do require paint.

SIDING POCKET RABBETED TRIM

Perfect for end wall terminations, this trim with a 3/4" siding pocket accepts all TruExterior Siding profiles.

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width	Window Pocket (W' x W")
5/4 x 3	1"	2-1/2"	3/4" x 3/4"
5/4 x 4	1"	3-1/2"	3/4" x 3/4"
5/4 x 5	1"	4-1/2"	3/4" x 3/4"
5/4 x 6	1"	5-1/2"	3/4" x 3/4"
5/4 x 8	1"	7-1/4"	3/4" x 3/4"

Available in 16-foot lengths

WINDOW & SIDING POCKET RABBETED TRIM

The ultimate accessory to build a neat, professional-looking window surround.

Smooth Finish

Woodgrain Finish

Nominal Size	Actual Thickness	Actual Width	Window Pocket (W' x W")
5/4 x 4	1"	3-1/2"	3/4" x 3/4"
5/4 x 6	1"	5-1/2"	3/4" x 3/4"
5/4 x 8	1"	7-1/4"	3/4" x 3/4"

Available in 16-foot lengths

TruExterior Siding & Trim comes pre-primed and does require paint.