PLANNING & DEVELOPMENT DEPARTMENT
2 WOODWARD AVE SUITE 808, DETROIT, MI 48226

HISTORIC DISTRICT COMMISSION

CERTIFICATE OF APPROPRIATENESS

Application Number: HDC2025-00741

Effective Date: 03/17/26

Project Address: 2008 Longfellow Street

Issued to: Nevar Jahwary
1142 E. Big Beaver Rd
Troy, MI 48083

Historic District: Boston-Edison

Description of Work:
(continued on next page)

Rehabilitate house and garage.

COA

With the Conditions that:
(continued on next page)

1) The existing wood siding at the house and garage and the wood shake and clapboard siding is intact and shall be repaired
2) Dimensions of one of the remaining historic double-hung window frames, including muntins and recessed dimension from the outer masonry wall, will be submitted to staff.
3) Intact historic wood windows will remain and be repaired as needed. Replacement windows will only be specified for openings in which vinyl windows have been installed and where historic windows were previously removed (i.e., empty window openings).
4) Specifications on the selected Kolbe 'Heritage Series" window line be submitted, and/or the Pella window line, as will a window order with all details related to the manufacturing be listed (including glass, screens, muntin profile and dimensions, etc.).
5) Should staff determine the selected replacement window is not a match to the historic windows, another window line will be submitted for review.
6) Existing wood brickmold will remain and be repaired. Where brickmold is missing, new wood brickmold, matching the dimension and profile will be installed and painted.
7) The window/wall panel design at the second story rear porch will be revised to match the historic design and proportions.
8) A section drawing or project notes will be added to the drawing set to clarify how the eave returns will be constructed and finished.
9) Cut sheets for selected asphalt shingle roof, rear entry doors, and gutters and downspouts will be submitted confirming design, dimension, exterior finish, and color.
10) Exterior paint colors for all wood surfaces to be painted will be listed on the project drawings, and paint colors selected will be in Color System C.

Application Number: HDC2025-00741

Description of Work:

n/a

COA

With the Conditions that:

n/a

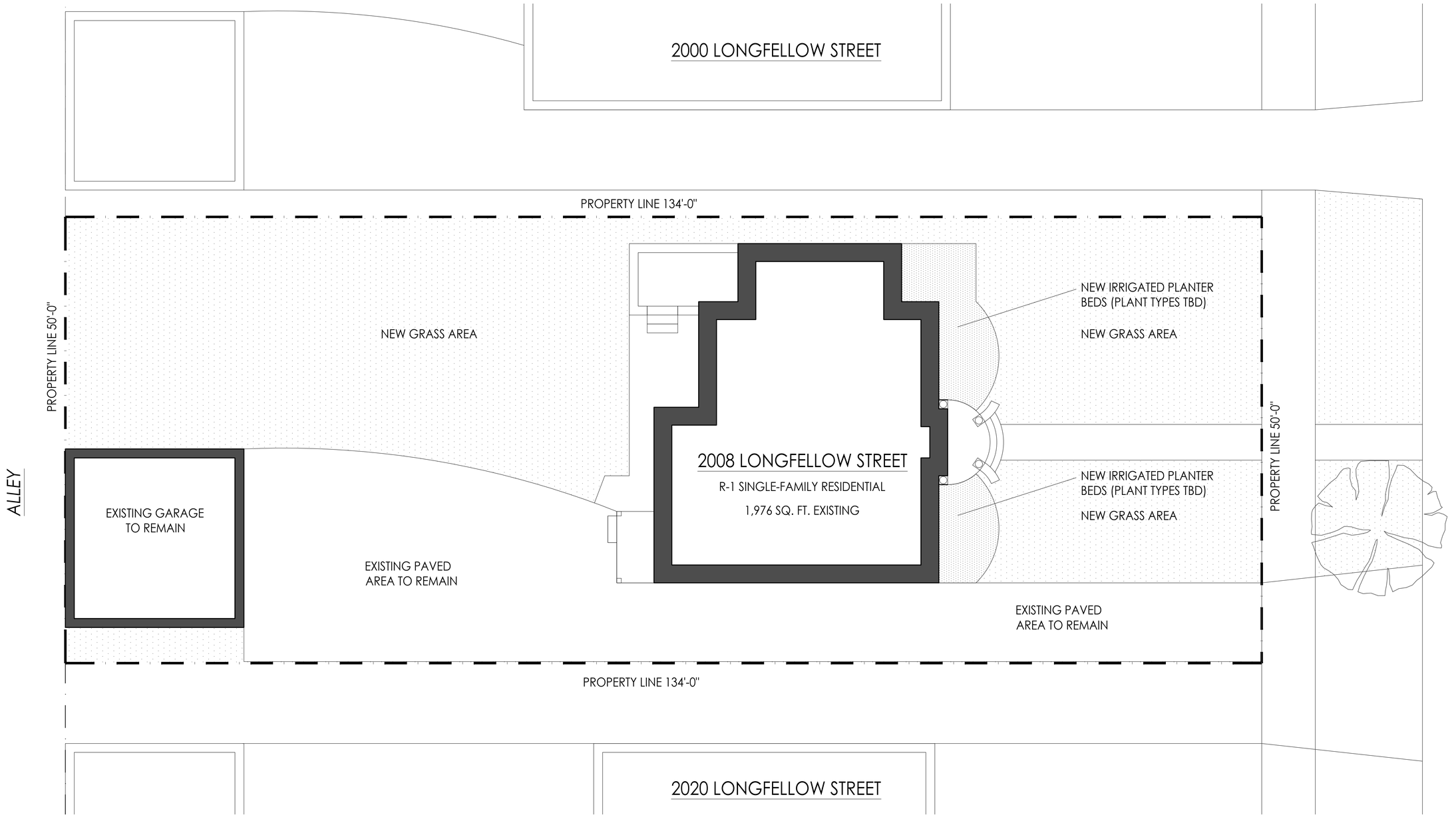
Pursuant to Section 5(10) of the Michigan Local Historic District Act, as amended, being MCL 399.205 (10) and Sections 21-2-57 and 21-2-73 of the 2019 Detroit City Code, and Detroit Historic District Commission ("DHDC") delegation of administrative authority via Resolutions 97-01, 97-02, 98-01, 20-03, 21-04, and/or 21-07, as applicable, the staff of the DHDC has reviewed the above referenced application and hereby issues a Certificate of Appropriateness ("COA") for the description of work, effective date above, as it meets the Secretary of the Interior's Standards for Rehabilitation and the district's Elements of Design

For the Commission:

Garrick Landsberg
Director of Staff, Historic District Commission

PSR: Audra 260317AD

Post this COA at the subject property until work is complete. It is important to note that approval by the DHDC does not waive the applicant's responsibility to comply with any other applicable ordinances or statutes.



01 architectural site plan
3/16" = 1'-0"

SITE PLAN GENERAL NOTES

1. THIS SITE AND BUILDING PLAN IS DIAGRAMMATIC IN NATURE. ALL BOUNDARIES, LOCATIONS, TOPOGRAPHY, LEGAL MEETS AND BOUNDS, IMPROVEMENTS, MONUMENTS, ETC. ARE TO BE VERIFIED BY THE OWNER'S LAND SURVEYOR AND CIVIL ENGINEER AS REQUIRED.
2. THE GENERAL CONTRACTOR IS TO VERIFY ALL SITE CONDITIONS, PROPERTY BOUNDARIES, LOCATION OF ALL EXISTING AND NEW PHYSICAL IMPROVEMENTS, DIMENSIONS, GRADES, AND MONUMENTS PRIOR TO THE COMMENCEMENT OF WORK. THE GENERAL CONTRACTOR IS TO HAVE THE SITE, BUILDING, FOUNDATIONS, AND ALL OTHER IMPROVEMENTS 'STAKED-OUT' BY A PROFESSIONAL LAND SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
3. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT EXISTING UNDERGROUND UTILITIES OR STRUCTURES NOT SCHEDULED FOR DEMOLITION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING UTILITIES NOT SCHEDULED FOR DEMOLITION OR ABANDONMENT (WHETHER SHOWN ON THE PLAN OR NOT) DURING THE CONSTRICTION OF THIS PROJECT.
4. EQUIPMENT SHALL BE SELECTED AND OPERATED SUCH THAT STRUCTURES, UTILITIES AND OTHER WORK THAT ARE TO REMAIN WILL NOT BE DAMAGED AND CAUSE INJURY TO WORKERS.
5. CONTRACTOR SHALL FILL BELOW GRADE, AREAS AND VOIDS RESULTING FROM WORK. THESE AREAS SHALL BE FILLED WITH ENGINEERED FILLED OR SUITABLY EXCAVATED MATERIAL AND COMPACTED TO 95% OF MAXIMUM DENSITY (ASTM1557).
6. ALL DEBRIS AND EXCESS EXCAVATED MATERIAL MUST BE LEGALLY DISPOSED OF.
7. ANY EXISTING PAVING AT ALLEY (IF APPLICABLE) IS TO REMAIN IN PLACE WHENEVER POSSIBLE AND PROTECTED WHERE REQUIRED TO PREVENT UNDO DAMAGE. PATCH, REPAIR AND REPLACE ANY ROADWAY AREAS ADJACENT TO CONSTRUCTION DAMAGED BY CONSTRUCTION PROCESSES. ALL WORK SHALL BE PERFORMED TO REPLACE DAMAGED OR MISSING PAVING TO THE EXISTING OR BETTER CONDITION THAN ORIGINALLY ENCOUNTERED, IN ACCORDANCE WITH THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION, CITY OF DETROIT OR ANY OTHER APPLICABLE LOCAL, STATE OR FEDERAL DESIGN STANDARDS.
8. INSTALL 3000PSI CONCRETE FLATWORK WALKWAYS, WIDTHS AS INDICATED. COORDINATE ELEVATION OF WALKWAYS WITH FINAL GRADE AND SLOPE FLATWORK TO PUBLIC RIGHT-OF-WAY WHERE POSSIBLE AND APPLICABLE.
9. COORDINATE SANITARY SEWER CLEAN-OUT LOCATION ON EXTERIOR OF BUILDING WITH SCHEDULED PORCH / DECKS AND APPLICABLE CODE REQUIREMENTS, COORDINATE LOCATION WITH GENERAL CONTRACTOR. WHEN POSSIBLE, INSTALL CLEAN-OUT IN PLANTING BED AREA, NOT IN OPEN YARD OR LAWN AREA.

architect:

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architecture. design . planning
residential . commercial
grosse pointe woods, mi 48236
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email: george@bailey-built.com
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seal:

STATE OF MICHIGAN
GEORGE BAILEY
No. 1301065827
LICENSED ARCHITECT

GEORGE BAILEY
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EXPIRES 06 . 23 . 2026

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hdc review set

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nevar jahwary
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sheet name:

architectural site plan

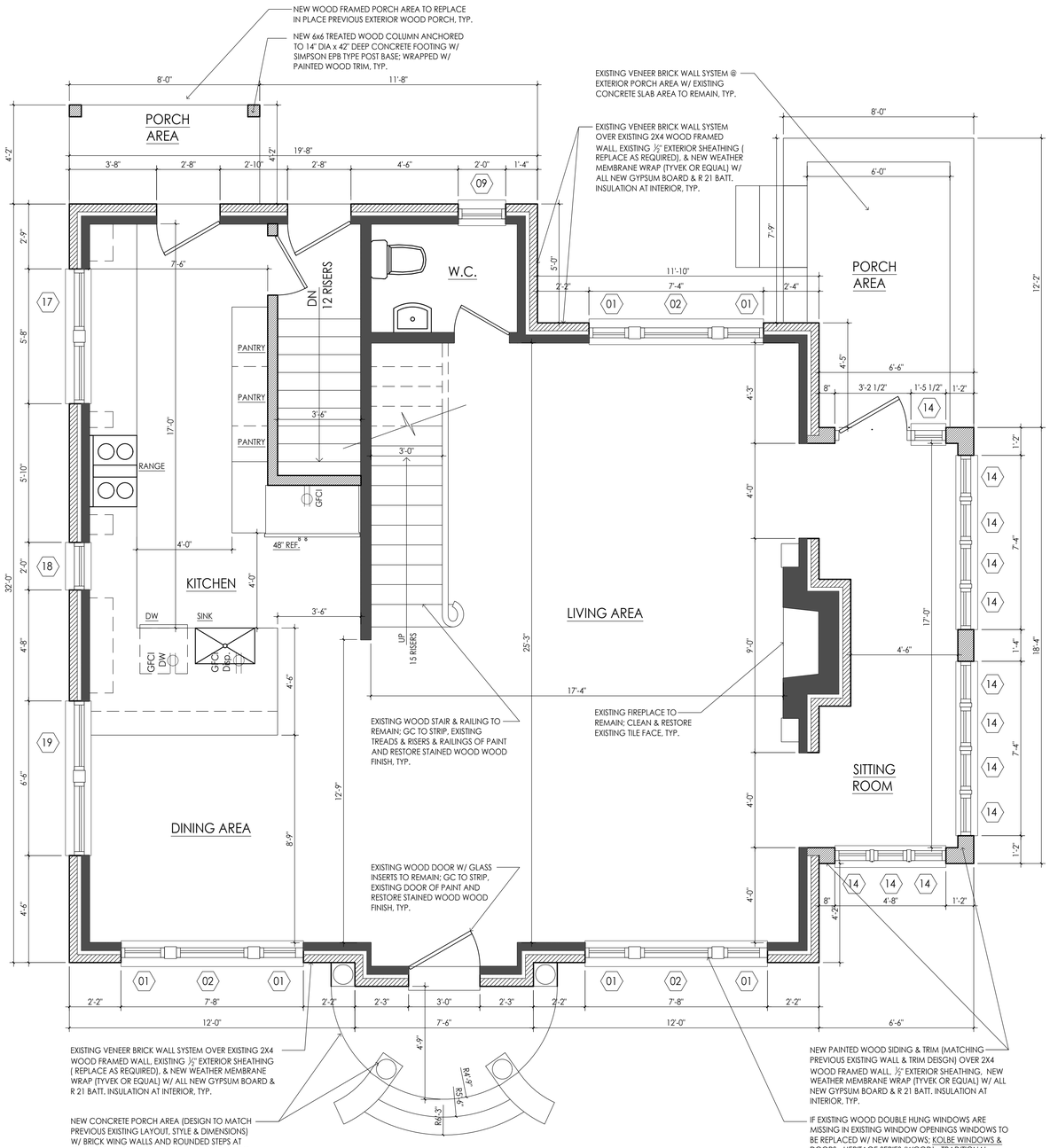
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01 floor plan - main level
3/8" = 1'-0"

REPAIR OR REPLACE EXISTING INTERIOR WALLS THAT ARE TO REMAIN IN PLACE, TYPICAL , *PAINTED FINISH UNLESS NOTED OTHERWISE*

ALL EXISTING DOORS, DOOR FRAMES, MOULDINGS, AND BASE MOULDINGS TO BE REPLACED UNLESS NOTED OTHERWISE, TYPICAL

ALL EXISTING EXTERIOR WINDOWS TO BE REPLACED U.N.O.; ALL NEW WINDOWS TO BE MARVIN OR EQUAL TO MATCH PREVIOUS STYLE & TYPE AS REQUIRED BY DETROIT HISTORIC DISTRICT REQUIREMENTS, TYP.

ALL FLOORING TO BE REPLACED THROUGHOUT, U.N.O.

OWNER TO DETERMINE ALL FINISH & FIXTURE SELECTIONS.

NEW WALL | EXISTING WALL | EXISTING BRICK VENEER

ALL EXTERIOR FINISH MATERIALS (STANDARD VENEER BRICK TO REMAIN EVERYWHERE WHERE NOT BEING DEMOLISHED; PATCH & REPAIR AS REQUIRED) AT AREAS OF DEMOLITION STANDARD VENEER BRICK TO BE REMOVED & SALVAGED FOR REUSE ON NEW EXTERIOR WALL CONFIGURATIONS, TYP.

CONTRACTOR TO HAVE ALL EXISTING SYSTEMS (MECHANICAL, ELECTRICAL, PLUMBING) CHECKED , VERIFIED AS TO OPERATIONAL STATUS, AND SERVICED IF REQUIRED BY LICENSED SUBCONTRACTORS FOR THAT TRADE, TYP.

WHEN REMOVING EXISTING WALLS & CEILINGS CONTRACTOR TO VERIFY IF WALLS TO BE REMOVED ARE LOAD BEARING, IF LOAD BEARING, CONTRACTOR TO CONTACT ARCHITECT FOR DESIGN MODIFICATION & SHOULD TAKE CARE THAT ADJACENT WALLS REMAIN INTACT; IF DAMAGE SHOULD OCCUR CONTRACTOR IN RESPONSIBLE TO REPAIR OR REPLACE AREAS TO MATCH EXISTING CONDITIONS. ALL WALLS & CEILING AREAS ON MAIN LEVEL TO RECEIVE NEW PAINT FINISH, TYP.

CONTRACTOR MUST VERIFY ALL EXISTING BUILDING DIMENSIONS IN FIELD PRIOR TO BEGINNING OF DEMOLITION AND/ OR CONSTRUCTION.

KITCHEN NOTES:
1. OWNER TO COORDINATE W/ CABINET DESIGNER/ INSTALLER FOR DIMENSIONS & LAYOUT OF BASE & UPPER CABINETS W/ GRANITE COUNTERS + UNDERMOUNT SINK.
2.PENINSULA AREA W/ GRANITE COUNTER: OVERHANG FOR SEATING ON 1 SIDES OF THE PENINSULA
3. NEW FLOORING
4. APPLIANCES WILL BE OWNER PROVIDED & CONTRACTOR INSTALLED; CONTRACTOR MUST COORDINATE W/ CABINET DESIGNER/ INSTALLER FOR DIMENSIONS & TOLERANCES
5. OWNER TO DETERMINE ALL FINISH & FIXTURE SELECTIONS

ALL WINDOW SASHES TO BE PAINTED FINISH - B:19 Black MS: N 0.5/, TYP.

ALL WOOD TRIM SURFACES (FASCIA, SIDING, TRIM, DETAILS, DENTILS) TO BE PAINTED FINISH - B:19 Black MS: N 0.5/, TYP.

ALL GUTTERS TO BE NEW AMERIMAX 6" K STYLE W/ 3" x 4" CORRUGATED DOWNSPOUTS (PREFINISHED BLACK COLOR), TYP.

ALL NEW ROOF AREAS TO BE OWENS CORNING - OAKRIDGE ARCHITECTURAL ASPHALT SHINGLES (ONYX BLACK), TYP.

GENERAL NOTES

1. IF CONFLICTS EXIST BETWEEN THESE DRAWINGS / DOCUMENTS AND ANY OTHER WITHIN THIS SET OR WITH THE PHYSICAL CONDITIONS, ALERT THE ARCHITECT IMMEDIATELY UPON DISCOVERY PRIOR TO FURTHER PHYSICAL CONSTRUCTION OF CONFLICT.
2. REFER TO BUILDING AND WALL SECTIONS FOR ELEVATION AND BUILDING HEIGHT INFORMATION.
3. ALL WALL ASSEMBLIES LOCATED AT OR ADJACENT TO AN EXTERIOR WALL ARE TO RECEIVE A MINIMUM OF R-21 INSULATION, WITH VAPOR BARRIER PER CODE.
4. ALL EXTERIOR & INTERIOR WALL PARTITION CONSTRUCTION IS TO BE 2X6 WOOD FRAMING, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
5. WHERE AN ASSEMBLY IS TO COORDINATE WITH MULTIPLE ADJACENT ASSEMBLIES, MAKE ALL NECESSARY PREPARATIONS TO ENSURE A SMOOTH, CONSISTENT AND UN-NOTICEABLE FINISH ACROSS THE ENTIRE SURFACE.
6. ALL ASSEMBLIES ARE TO PERFORM ACCORDING TO ASSEMBLY DETAILS, ASSOCIATED UL RATINGS AND SPECIFICATIONS.
7. COORDINATE ALL BUILDING ASSEMBLY AND MATERIAL TRANSITIONS WITH ALL ASSOCIATED TRADES.
8. REFER TO THE FINISH SCHEDULE AND SPECIFICATIONS FOR ALL MATERIALS.
9. FIRE-SEAL / FIRE-CAULK SEALANT IS TO BE INSTALLED AT ALL INTERSECTIONS, CONSTRUCTION ASSEMBLIES, PENETRATIONS, OR AS REQUIRED TO COMPLETE FIRE-BLOCKING CLOSURES AS PER APPLICABLE CODES.
10. ALL LOCATIONS OF CEMENTITIOUS BACKER BOARD ARE TO BE COORDINATED BY THE CONTRACTOR WITH THE OWNER AND SCHEDULED CONSTRUCTION ASSEMBLY. MAINTAIN ALL REQUIRED FIRE RATINGS ACCORDING TO CONSTRUCTION ASSEMBLY DETAILS, ASSOCIATED UL RATINGS AND SPECIFICATIONS.
11. FRAMING CONTRACTOR TO PROVIDE BLOCKING WHERE REQUIRED TO MILLWORK, EQUIPMENT OR OTHER FINISHES AND ACCESSORIES. ALL INTERIOR TRIM, CABINETRY, ETC. WORK AND FINISH DIM'S TO BE CONFIRMED W/ CABINETRY BUILDER/ INSTALLER
12. EXTERIOR DIMENSIONS ARE GIVEN TO THE OUTER FACE OF THE WALL ASSEMBLY COMPONENTS.
13. ALL WINDOWS TO WOJAN M-950 SERIES OR EQUAL. SELECTION OF TYPE & FINISH BY OWNER
14. ALL INTERIOR WALL FINISHES TO BE PAINTED GYSUM BOARD (SHERWIN WILLIAMS OR EQUAL) UNLESS NOTED OTHERWISE.
15. PROVIDE SOUND ATTENUATION INSULATION AT ALL INTERIOR BATHROOM & LAUNDRY ROOM WALLS THAT ADJOIN OTHER WALLS AS DIRECTED BY ARCHITECT
16. PROVIDE WIRED CARBON MONOXIDE DETECTORS AS REQUIRED PER CODE
17. PROVIDE WIRED SMOKE DETECTORS AS REQUIRED PER CODE
18. CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK WITH OWNER OR ARCHITECT PRIOR TO WORK TO BE DONE
19. PROVIDE EXTENSION JAMBS AS REQ'D FOR ALL WINDOWS
20. ALL SHOWER GLASS DOOR & ENCLOSURES ARE TO BE DESIGNED BY INSTALLER THEN CONFIRMED BY OWNER OR ARCHITECT ON FINAL DESIGN
21. GAS METER TO BE LOCATED ON EXTERIOR OF BUILDING COORDINATE WITH UTILITY PROVIDER
22. GAS SHUT OFF - LOCATE PER CODE AND UTILITY PROVIDER.
23. INCOMING WATER SERVICE METER AND SHUT OFF TO BE COORDINATED WITH DWSD.
24. ELECTRICAL METER AND DISCONNECT TO BE LOCATED ON EXTERIOR OF BUILDING AND FED WITH NEW UNDERGROUND CABLE - COORDINATE WITH UTILITY PROVIDER.
25. 100 AMP ELECTRICAL SERVICE PANEL TO BE INSTALLED IN EACH UNIT ON 4 x 4 x 3/4" PLYWOOD BACKBOARD. LOW VOLTAGE FEED PROVIDED BY SERVICE PROVIDER. LOCATE MODEM/ROUTER INTERFACE IN PANTRY CLOSET.
26. ALL SCHEDULED HVAC TRUNKS (SUPPLY AND RETURN)LOCATIONS - KEEP CONSOLIDATED AND PROVIDE ALL BRANCH/DISTRIBUTION DUCTWORK WITHIN FLOOR/ CEILING ASSEMBLY WITH FIRE DAMPERS FOR ALL NEEDED PENETRATIONS OF ASSEMBLY.
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floor plan - main level

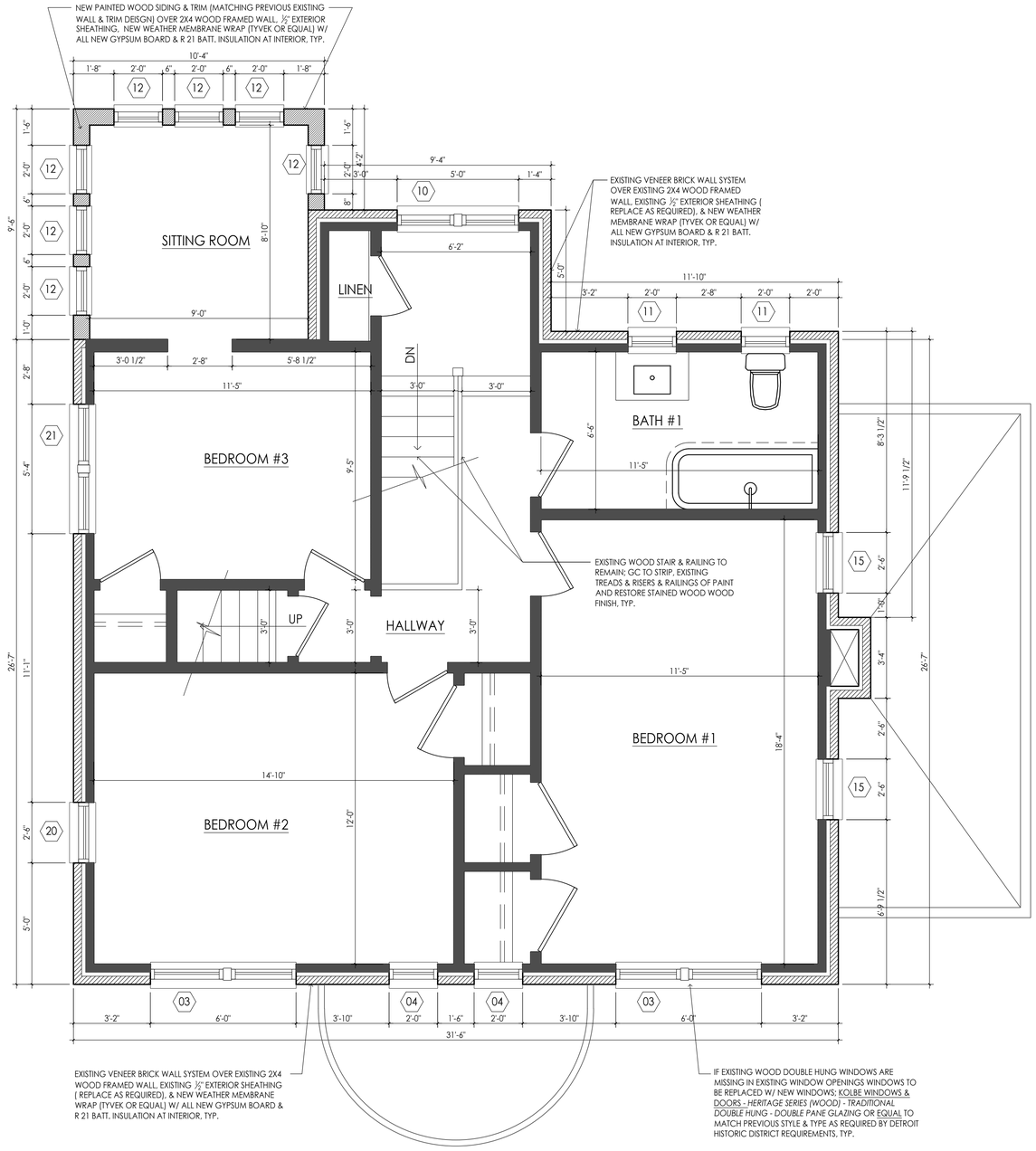
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01 floor plan - upper level
3/8" = 1'-0"

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BATH NOTES:
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2. PLUMBING FIXTURES WILL BE OWNER PROVIDED & CONTRACTOR INSTALLED; CONTRACTOR MUST COORDINATE W/ CABINET DESIGNER/ INSTALLER FOR DIMENSIONS & TOLERANCES
3. TILED SHOWER ENCLOSURE W/ GLASS DOOR WALL & TILED RECESSED SHELVES
4. OWNER TO DETERMINE ALL FINISH & FIXTURE SELECTIONS

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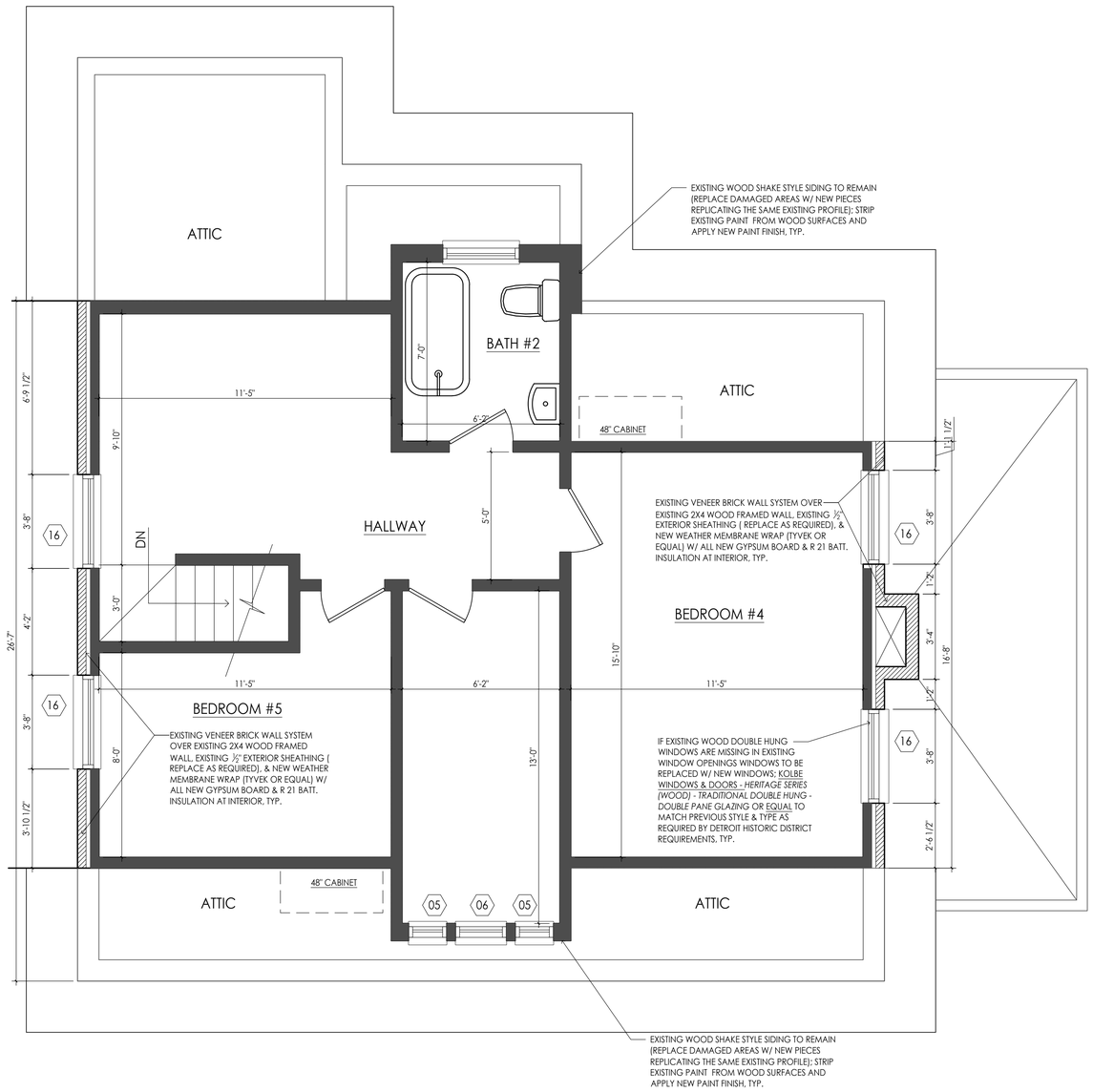
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01 floor plan - attic level
3/8" = 1'-0"

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NEW WALL | EXISTING WALL | EXISTING BRICK VENEER

ALL EXTERIOR FINISH MATERIALS (STANDARD VENEER BRICK TO REMAIN EVERYWHERE WHERE NOT BEING DEMOLISHED; PATCH & REPAIR AS REQUIRED) AT AREAS OF DEMOLITION STANDARD VENEER BRICK TO BE REMOVED & SALVAGED FOR REUSE ON NEW EXTERIOR WALL CONFIGURATIONS, TYP.

CONTRACTOR TO HAVE ALL EXISTING SYSTEMS (MECHANICAL, ELECTRICAL, PLUMBING) CHECKED , VERIFIED AS TO OPERATIONAL STATUS, AND SERVICED IF REQUIRED BY LICENSED SUBCONTRACTORS FOR THAT TRADE, TYP.

WHEN REMOVING EXISTING WALLS & CEILINGS CONTRACTOR TO VERIFY IF WALLS TO BE REMOVED ARE LOAD BEARING, IF LOAD BEARING, CONTRACTOR TO CONTACT ARCHITECT FOR DESIGN MODIFICATION & SHOULD TAKE CARE THAT ADJACENT WALLS REMAIN INTACT; IF DAMAGE SHOULD OCCUR CONTRACTOR IN RESPONSIBLE TO REPAIR OR REPLACE AREAS TO MATCH EXISTING CONDITIONS. ALL WALLS & CEILING AREAS ON MAIN LEVEL TO RECEIVE NEW PAINT FINISH, TYP.

CONTRACTOR MUST VERIFY ALL EXISTING BUILDING DIMENSIONS IN FIELD PRIOR TO BEGINNING OF DEMOLITION AND/ OR CONSTRUCTION.

BATH NOTES:
1. VANITY W/ GRANITE COUNTER & UNDERMOUNT SINK
2. PLUMBING FIXTURES WILL BE OWNER PROVIDED & CONTRACTOR INSTALLED; CONTRACTOR MUST COORDINATE W/ CABINET DESIGNER/ INSTALLER FOR DIMENSIONS & TOLERANCES
3. TILED SHOWER ENCLOSURE W/ GLASS DOOR WALL & TILED RECESSED SHELVES
4. OWNER TO DETERMINE ALL FINISH & FIXTURE SELECTIONS

ALL WINDOW SASHES TO BE PAINTED FINISH - B:19 Black MS: N 0.5/, TYP.

ALL WOOD TRIM SURFACES (FASCIA, SIDING, TRIM, DETAILS, DENTILS) TO BE PAINTED FINISH - B:19 Black MS: N 0.5/, TYP.

ALL GUTTERS TO BE NEW AMERIMAX 6" K STYLE W/ 3" x 4" CORRUGATED DOWNSPOUTS (PREFINISHED BLACK COLOR), TYP.

ALL NEW ROOF AREAS TO BE OWENS CORNING - OAKRIDGE ARCHITECTURAL ASPHALT SHINGLES (ONYX BLACK), TYP.

GENERAL NOTES

1. IF CONFLICTS EXIST BETWEEN THESE DRAWINGS / DOCUMENTS AND ANY OTHER WITHIN THIS SET OR WITH THE PHYSICAL CONDITIONS, ALERT THE ARCHITECT IMMEDIATELY UPON DISCOVERY PRIOR TO FURTHER PHYSICAL CONSTRUCTION OF CONFLICT.
2. REFER TO BUILDING AND WALL SECTIONS FOR ELEVATION AND BUILDING HEIGHT INFORMATION.
3. ALL WALL ASSEMBLIES LOCATED AT OR ADJACENT TO AN EXTERIOR WALL ARE TO RECEIVE A MINIMUM OF R-21 INSULATION, WITH VAPOR BARRIER PER CODE.
4. ALL EXTERIOR & INTERIOR WALL PARTITION CONSTRUCTION IS TO BE 2X6 WOOD FRAMING, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
5. WHERE AN ASSEMBLY IS TO COORDINATE WITH MULTIPLE ADJACENT ASSEMBLIES, MAKE ALL NECESSARY PREPARATIONS TO ENSURE A SMOOTH, CONSISTENT AND UN-NOTICEABLE FINISH ACROSS THE ENTIRE SURFACE.
6. ALL ASSEMBLIES ARE TO PERFORM ACCORDING TO ASSEMBLY DETAILS, ASSOCIATED UL RATINGS AND SPECIFICATIONS.
7. COORDINATE ALL BUILDING ASSEMBLY AND MATERIAL TRANSITIONS WITH ALL ASSOCIATED TRADES.
8. REFER TO THE FINISH SCHEDULE AND SPECIFICATIONS FOR ALL MATERIALS.
9. FIRE-SEAL / FIRE-CAULK SEALANT IS TO BE INSTALLED AT ALL INTERSECTIONS, CONSTRUCTION ASSEMBLIES, PENETRATIONS, OR AS REQUIRED TO COMPLETE FIRE-BLOCKING CLOSURES AS PER APPLICABLE CODES.
10. ALL LOCATIONS OF CEMENTITIOUS BACKER BOARD ARE TO BE COORDINATED BY THE CONTRACTOR WITH THE OWNER AND SCHEDULED CONSTRUCTION ASSEMBLY. MAINTAIN ALL REQUIRED FIRE RATINGS ACCORDING TO CONSTRUCTION ASSEMBLY DETAILS, ASSOCIATED UL RATINGS AND SPECIFICATIONS.
11. FRAMING CONTRACTOR TO PROVIDE BLOCKING WHERE REQUIRED TO MILLWORK, EQUIPMENT OR OTHER FINISHES AND ACCESSORIES. ALL INTERIOR TRIM, CABINETRY, ETC. WORK AND FINISH DIM'S TO BE CONFIRMED W/ CABINETRY BUILDER/ INSTALLER
12. EXTERIOR DIMENSIONS ARE GIVEN TO THE OUTER FACE OF THE WALL ASSEMBLY COMPONENTS.
13. ALL WINDOWS TO WOJAN M-950 SERIES OR EQUAL. SELECTION OF TYPE & FINISH BY OWNER
14. ALL INTERIOR WALL FINISHES TO BE PAINTED GYSUM BOARD (SHERWIN WILLIAMS OR EQUAL) UNLESS NOTED OTHERWISE.
15. PROVIDE SOUND ATTENUATION INSULATION AT ALL INTERIOR BATHROOM & LAUNDRY ROOM WALLS THAT ADJOIN OTHER WALLS AS DIRECTED BY ARCHITECT
16. PROVIDE WIRED CARBON MONOXIDE DETECTORS AS REQUIRED PER CODE
17. PROVIDE WIRED SMOKE DETECTORS AS REQUIRED PER CODE
18. CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK WITH OWNER OR ARCHITECT PRIOR TO WORK TO BE DONE
19. PROVIDE EXTENSION JAMBS AS REQ'D FOR ALL WINDOWS
20. ALL SHOWER GLASS DOOR & ENCLOSURES ARE TO BE DESIGNED BY INSTALLER THEN CONFIRMED BY OWNER OR ARCHITECT ON FINAL DESIGN
21. GAS METER TO BE LOCATED ON EXTERIOR OF BUILDING COORDINATE WITH UTILITY PROVIDER
22. GAS SHUT OFF - LOCATE PER CODE AND UTILITY PROVIDER.
23. INCOMING WATER SERVICE METER AND SHUT OFF TO BE COORDINATED WITH DWSD.
24. ELECTRICAL METER AND DISCONNECT TO BE LOCATED ON EXTERIOR OF BUILDING AND FED WITH NEW UNDERGROUND CABLE - COORDINATE WITH UTILITY PROVIDER.
25. 100 AMP ELECTRICAL SERVICE PANEL TO BE INSTALLED IN EACH UNIT ON 4 x 4 x 3/4" PLYWOOD BACKBOARD. LOW VOLTAGE FEED PROVIDED BY SERVICE PROVIDER. LOCATE MODEM/ROUTER INTERFACE IN PANTRY CLOSET.
26. ALL SCHEDULED HVAC TRUNKS (SUPPLY AND RETURN)LOCATIONS - KEEP CONSOLIDATED AND PROVIDE ALL BRANCH/DISTRIBUTION DUCTWORK WITHIN FLOOR/ CEILING ASSEMBLY WITH FIRE DAMPERS FOR ALL NEEDED PENETRATIONS OF ASSEMBLY.
27. ALL HVAC AND WATER HEATING EQUIPMENT TO BE HIGH EFFICIENCY UNITS PER MEP SCHEDULE. COORDINATE EXHAUST PENETRATIONS WITH EXTERIOR FACADE ELEMENTS AND OPENINGS PER CODE.
28. A FLOOR DRAIN MUST BE PROVIDED DIRECTLY ADJACENT TO FURNACE LOCATION FOR CONDENSATE, PER CODE - NO CONDENSATE PUMP.
29. GENERAL CONTRACTOR TO COORDINATE UNDERGROUND PLUMBING WITH HVAC CONTRACTOR.
30. EXTERIOR STAIRS AND DECKS AREAS AT THE REAR TO FRAMED WITH TREATED WOOD FRAMING. ALL WALKING SURFACES TO BE TREX OR EQUAL, (GC TO SUBMIT STANDARD COLORS FOR SELECTION) SECURED WITH CONCEALED FASTENERS.

architect:

bailey. built. pllc
architecture. design . planning
residential . commercial
grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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GEORGE BAILEY
No. 1301065827
LICENSED ARCHITECT

GEORGE BAILEY
LICENSE #1301065827
EXPIRES 06 . 23 . 2026

drawing issue:

hdc review set

client name:

nevar jahwary
stonebridge development group
1142 e. big beaver road
troy, mi 48083

project name:

longfellow residence

2008 longfellow street
detroit, mi 48206

sheet name:

floor plan - attic level

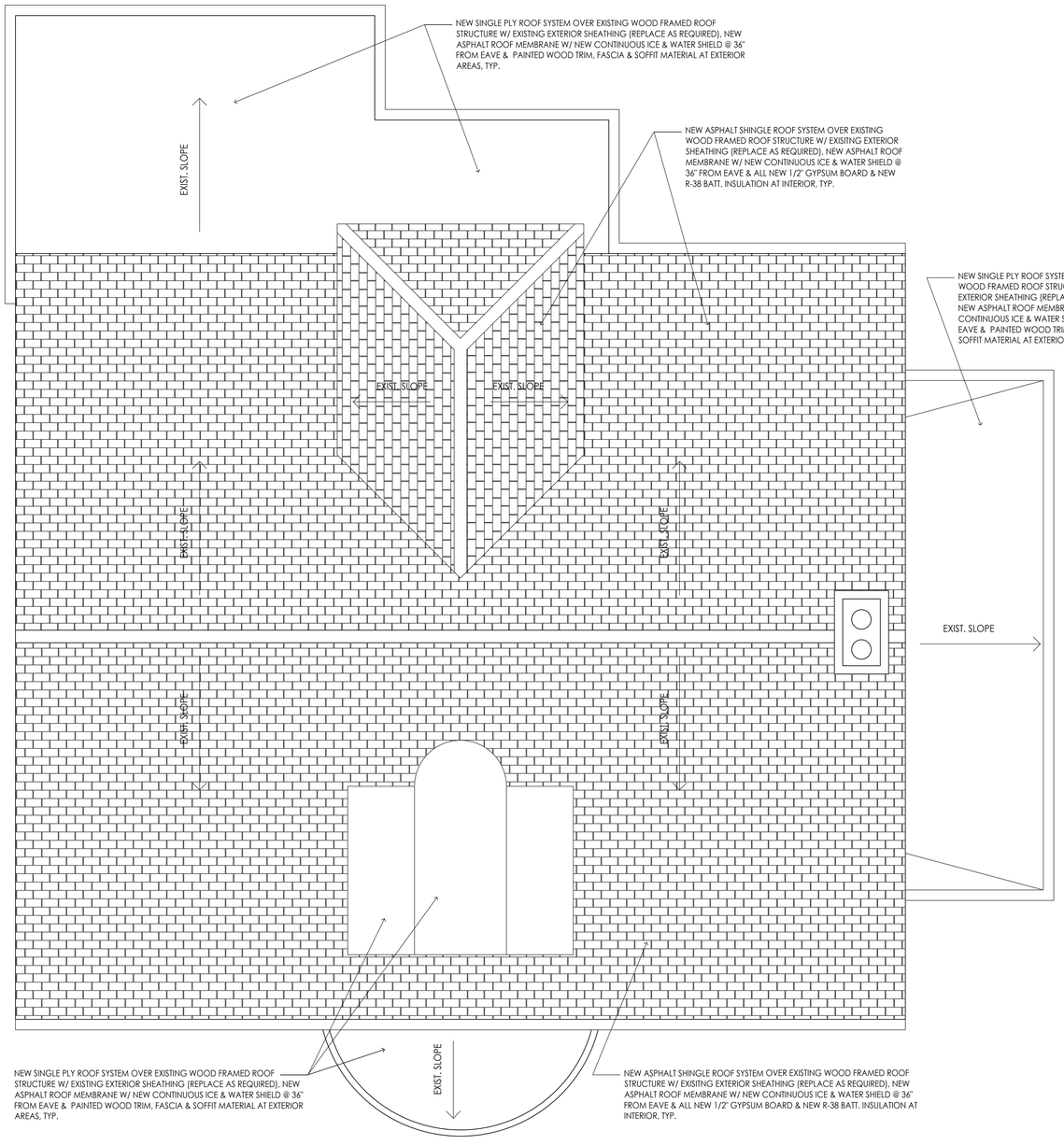
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01 floor plan - roof level
3/8" = 1'-0"

NEW WALL | EXISTING WALL | EXISTING BRICK VENEER

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WOOD CONSTRUCTION NOTES

1. WOOD CONSTRUCTION SHALL BE GOVERNED BY THE APPLICABLE CODE AND LATEST EDITIONS OF THE AITC MANUAL AND NDS (NATIONAL DESIGN STANDARDS) AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION).
2. LAMINATED VENEER LUMBER (SUCH AS MICROLAM) SHALL HAVE THE FOLLOWING STRUCTURAL PROPERTIES: FB=2800 PSI, FV=285 PSI, E=2,000,000 PSI.
3. STUDS SHALL BE SPF/STUD (WWPA) OR BETTER GRADE, U.O.N. AT MC 19% MAXIMUM.
4. STRUCTURAL DIMENSION LUMBER SUCH AS HEADERS AND JOISTS SHALL BE A MINIMUM OF #2 HEM FIR AT MC 19% MAXIMUM.
5. WOOD FASTENING SHALL BE PER TABLE 2304.9.1, MBC 2012, UNLESS NOTED MORE CONSERVATIVE ON DRAWINGS. PROVIDE MORE CONSERVATIVE OPTION WHERE CONFLICTS EXIST.
6. STUDS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PIECES ARE PROVIDED TO STRENGTHEN THE MEMBER. (I.E. SIMPSON SS STUD SHOES).
7. ALL STRUCTURAL LUMBER IN CONTACT WITH CONCRETE OR MASONRY, LESS THAN 8" ABOVE GRADE OR EXPOSED TO THE WEATHER, SHALL BE PRESSURE TREATED TO A MINIMUM OF 0.40 POUNDS PER CUBIC FOOT RETENTION WITH AMMONIACAL COPPER ARSENATE (ACA), OR APPROVED EQUAL TREATMENT.
8. ALL LUMBER AT OR BELOW GRADE SHALL BE PRESSURE TREATED TO A MINIMUM OF 0.60 POUNDS PER CUBIC FOOT RETENTION WITH AMMONIACAL COPPER ARSENATE (ACA), OR APPROVED EQUAL TREATMENT.
9. ALL MULTIPLE BEAMS SHALL BE NAILED WITH 2 ROWS OF 16D NAILS AT 12" O.C. STAGGERED WITH PL PREMIUM BRAND CONSTRUCTION ADHESIVE INSTALLED BETWEEN EACH SUCCESSIVE MEMBER.
10. AT EACH WALL OPENING ADD ONE HALF THE TOTAL NUMBER OF STUDS DISPLACED TO EACH SIDE OF THE OPENING (FULL HEIGHT) AND ADD (2) 2X JACK STUDS BELOW THE HEADER, AT BEARING ENDS U.N.O.
11. NOTCHING AND DRILLING OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT.
12. ALL CONNECTIONS NOT NOTED ON THE DRAWINGS SHALL BE MADE WITH PREFABRICATED STEEL HANGERS SIZED FOR THE CARRIED LOAD MEMBER SIZE (I.E. A DOUBLE 2X10 MUST HAVE A SIMPSON U-210-2 HANGER [OR EQUAL] ETC.
13. ALL POSTS SHALL EXTEND TO SOLID BEARING. REPEAT POSTS ON LOWER FLOORS BELOW UPPER POSTS (U.N.O.) BLOCK SOLID BELOW ALL POSTS TO SOLID BEARING BELOW.
14. PROVIDE SILL PLATE ANCHOR BOLTS AT 6'-0" O.C. (MAX.) AND 12" (MAX.) FROM END OF SILL PLATES. ANCHOR BOLTS SHALL BE 1/2" DIAMETER (MIN.) AND SHALL EXTEND 15" (MIN.) INTO GROUTED CONCRETE BLOCK, OR 7" (MIN.) INTO POURED IN PLACE CONCRETE FOOTING, OR 8" INTO GROUTED CONCRETE BLOCK PLUS 7" INTO POURED IN PLACE CONCRETE FOOTING.
15. INSTALL ONE (1) ROW OF SOLID BRIDGING (TYP.)
16. INSTALL WEB TRUSS COMPATIBLE RIM JOIST AT ALL END / PERIMETER LOCATIONS.

architect:

bailey. built. pllc
architecture. design . planning
residential . commercial
grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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hdc review set

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nevar jahwary
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1142 e. big beaver road
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project name:

longfellow residence

2008 longfellow street
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sheet name:

floor plan - roof level

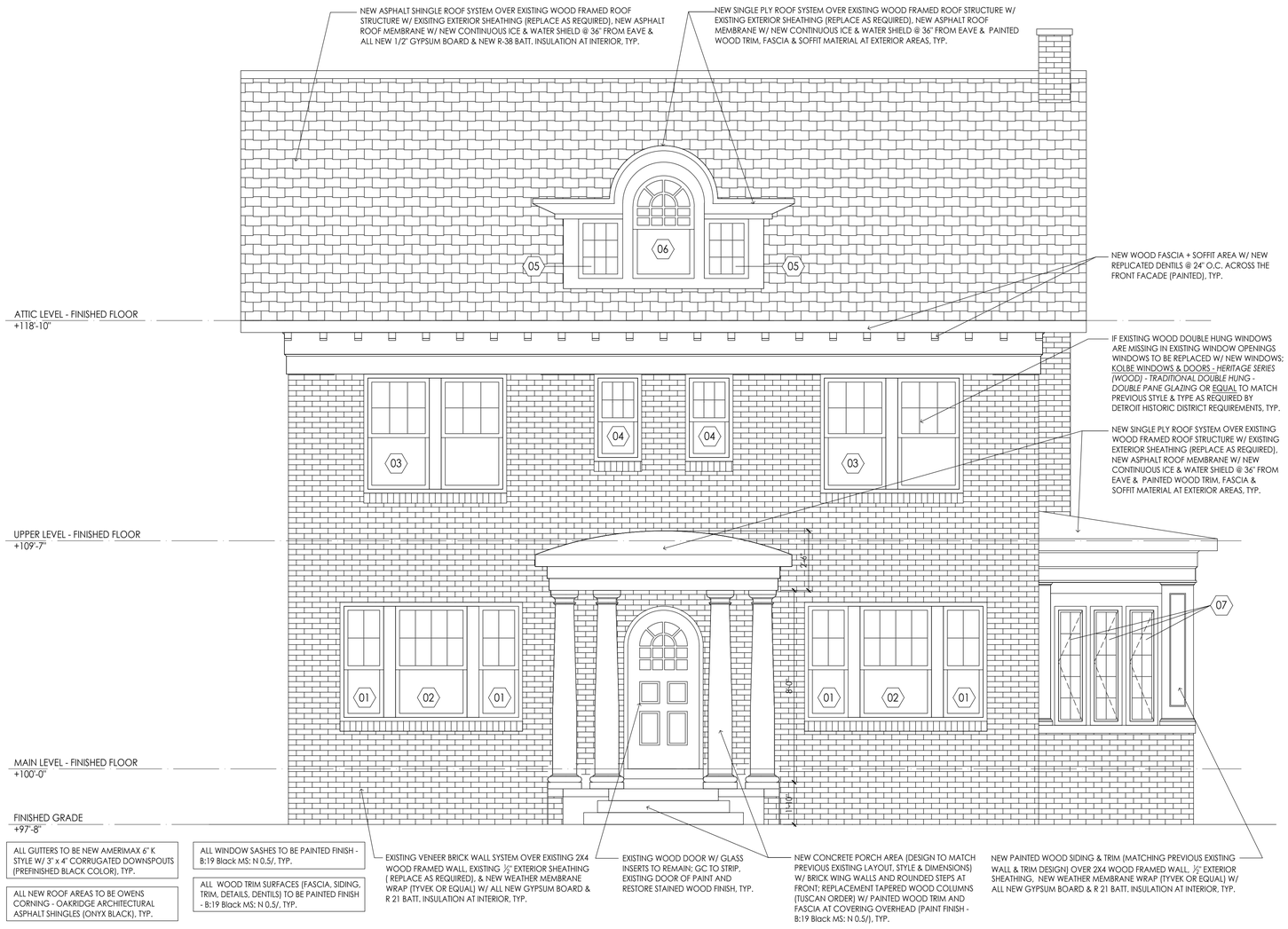
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01 exterior elevation - south
3/8" = 1'-0"

GENERAL NOTES

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4. IF CONFLICTS EXIST BETWEEN THESE DRAWINGS / DOCUMENTS AND OTHER WITHIN THIS SET OR WITH THE PHYSICAL CONDITIONS, ALERT THE ARCHITECT IMMEDIATELY UPON DISCOVERY PRIOR TO FURTHER PHYSICAL CONSTRUCTION OF CONFLICT.
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7. CONTRACTOR IS TO CLEAN ALL CLADDING AND SIDING ASSEMBLIES UPON COMPLETION OF ALL EXTERIOR SCOPES OF WORK.
8. CONTRACTOR TO FIELD VERIFY ALL WINDOW AND DOOR OPENING DIMENSIONS.
13. PREPARE ALL WINDOW AND DOOR OPENINGS WITH CONTINUOUS FLEXIBLE FLASHING APPROPRIATE FOR THE ASSEMBLY MATERIAL AND APPLICATION.
14. VENTILATE ROOFING ASSEMBLY PER CODE.
15. ALL PANEL HEIGHTS AND WIDTHS - AS WELL AS COURSING HEIGHTS SHOWN IN ELEVATION OR WITHIN SCHEDULES - ARE NOMINAL, CONCEPTUAL, AND INTENDED FOR PLANNING PURPOSES ONLY. THE GENERAL CONTRACTOR, WITH THE MANUFACTURER AND INSTALLER ARE TO COORDINATE FINAL SIZES, ARRANGEMENTS AND PLACEMENT VIA ORIGINAL SHOP DRAWINGS BASED UPON VERIFIED FIELD CONDITIONS FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.

architect:

bailey. built. pllc

architecture. design . planning

residential . commercial

grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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sheet name:

exterior elevations

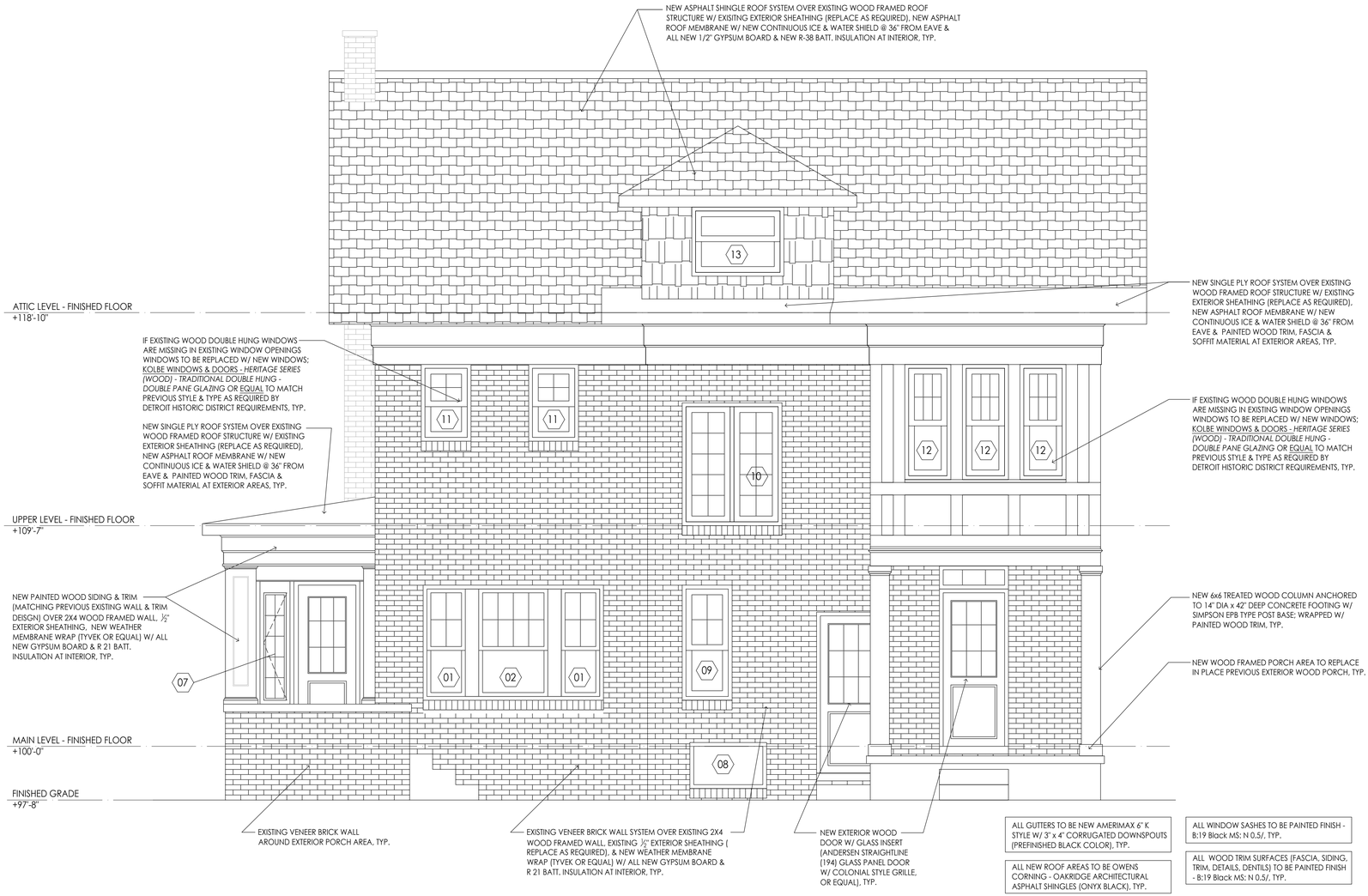
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01 exterior elevation - north
3/8" = 1'-0"

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architect:

bailey. built. pllc

architecture. design . planning

residential . commercial

grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
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hdc review set

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1142 e. big beaver road
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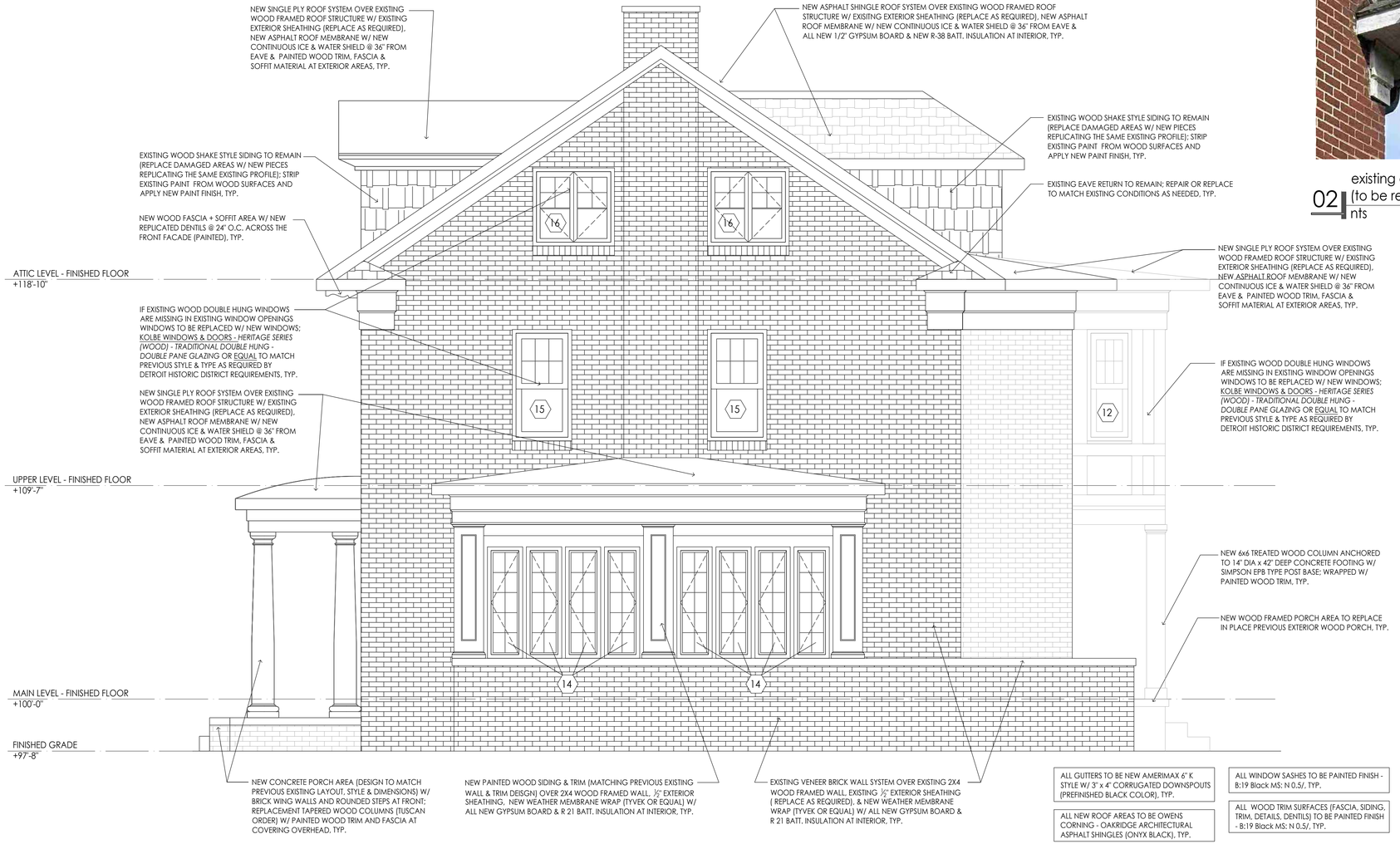
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01 exterior elevation - east
3/8" = 1'-0"



02 existing eave return (to be replicated)
nts

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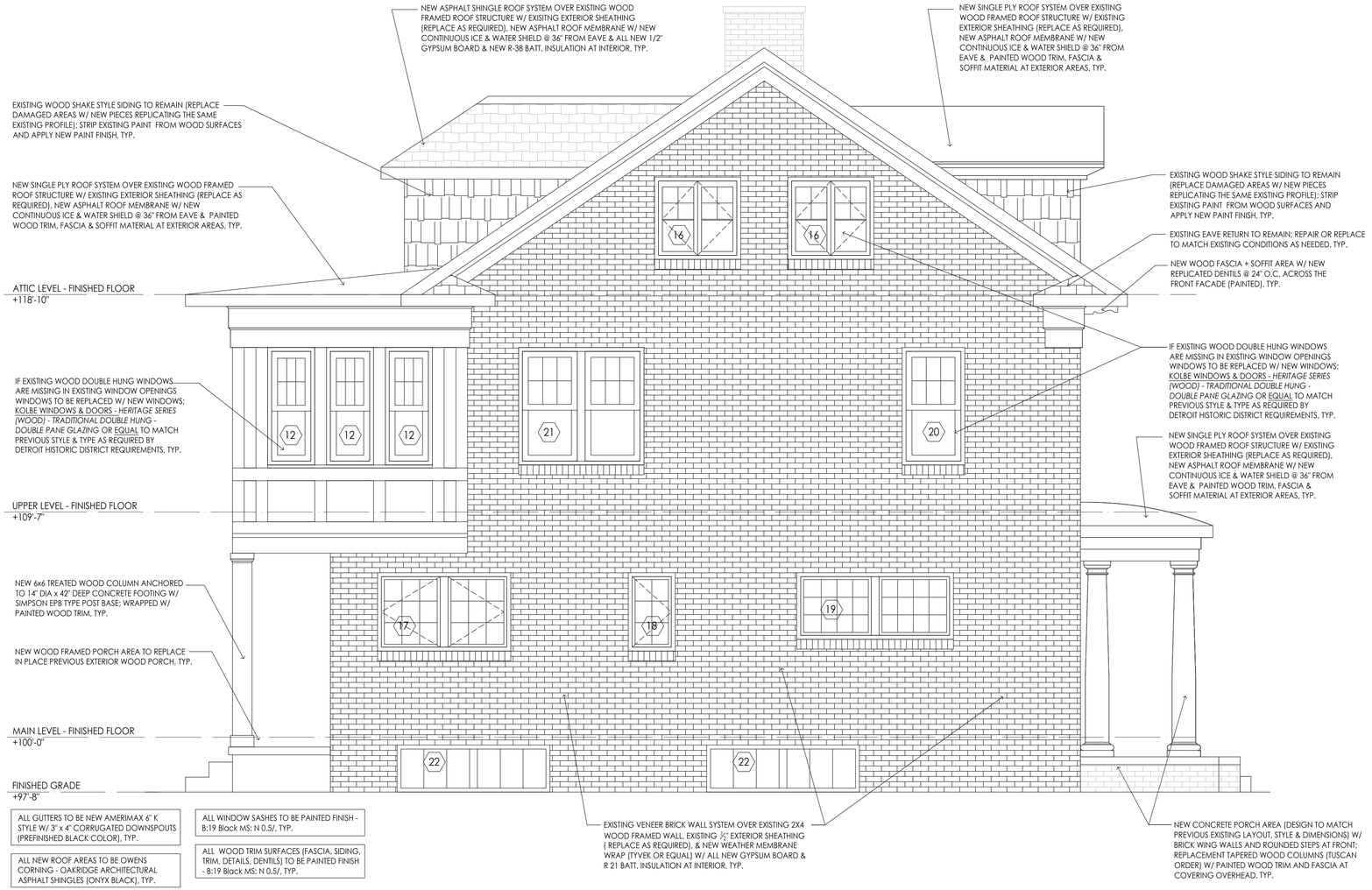
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01 exterior elevation - west
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1. COORDINATE ALL BUILDING ASSEMBLY AND MATERIALTRANSITIONS WITH ALL ASSOCIATED TRADES. WHERE AN ASSEMBLY IS TO COORDINATE WITH MULTIPLE ADJACENT ASSEMBLIES, MAKE ALL NECESSARY PREPARATIONS TO ENSURE SMOOTH, CONSISTENT AND UN-NOTICABLE FINISH ACROSS ENTIRE SURFACE.
2. REFER TO BUILDING AND WALL SECTIONS FOR ELEVATION AND BUILDING HEIGHT INFORMATION.
3. ALL NOTES INDICATE AREAS OF WORK TO BE COMPLETED BUT MAY NOT COVER OR INCLUDE EVERY INSTANCE REQUIRED. CONTRACTOR TO FIELD VERIFY AND DOCUMENT ALL CONDITIONS (INTERIOR AND EXTERIOR) PRIOR TO COMMENCING ANY SCOPE OF WORK.
4. IF CONFLICTS EXIST BETWEEN THESE DRAWINGS / DOCUMENTS AND OTHER WITHIN THIS SET OR WITH THE PHYSICAL CONDITIONS, ALERT THE ARCHITECT IMMEDIATELY UPON DISCOVERY PRIOR TO FURTHER PHYSICAL CONSTRUCTION OF CONFLICT.
5. ALL ASSEMBLIES ARE TO PERFORM ACCORDING TO ASSEMBLY DETAILS, ASSOCIATED UL RATINGS, AND THE SPECIFICATIONS.
6. PROVIDE PRE-FINISHED ALUMINUM FLASHING, COUNTER FLASHING AND DRIP EDGES WHEREVER NECESSARY AND / OR INDICATED ON DRAWINGS TO MAINTAIN A WEATHER AND WATERTIGHT SEAL AND TO PRESERVE ALL WARRANTIES.
7. CONTRACTOR IS TO CLEAN ALL CLADDING AND SIDING ASSEMBLIES UPON COMPLETION OF ALL EXTERIOR SCOPES OF WORK.
8. CONTRACTOR TO FIELD VERIFY ALL WINDOW AND DOOR OPENING DIMENSIONS.
13. PREPARE ALL WINDOW AND DOOR OPENINGS WITH CONTINUOUS FLEXIBLE FLASHING APPROPRIATE FOR THE ASSEMBLY MATERIAL AND APPLICATION.
14. VENTILATE ROOFING ASSEMBLY PER CODE.
15. ALL PANEL HEIGHTS AND WIDTHS - AS WELL AS COURSING HEIGHTS SHOWN IN ELEVATION OR WITHIN SCHEDULES - ARE NOMINAL, CONCEPTUAL, AND INTENDED FOR PLANNING PURPOSES ONLY. THE GENERAL CONTRACTOR, WITH THE MANUFACTURER AND INSTALLER ARE TO COORDINATE FINAL SIZES, ARRANGEMENTS AND PLACEMENT VIA ORIGINAL SHOP DRAWINGS BASED UPON VERIFIED FIELD CONDITIONS FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.

architect:

bailey. built. pllc
architecture. design . planning
residential . commercial
grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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No. 1301065827
LICENSED ARCHITECT

GEORGE BAILEY
LICENSE #1301065827
EXPIRES 06 . 23 . 2026

drawing issue:

hdc review set

client name:

nevar jahwary
stonebridge development group
1142 e. big beaver road
troy, mi 48083

project name:

longfellow residence

2008 longfellow street
detroit, mi 48206

sheet name:

exterior elevations

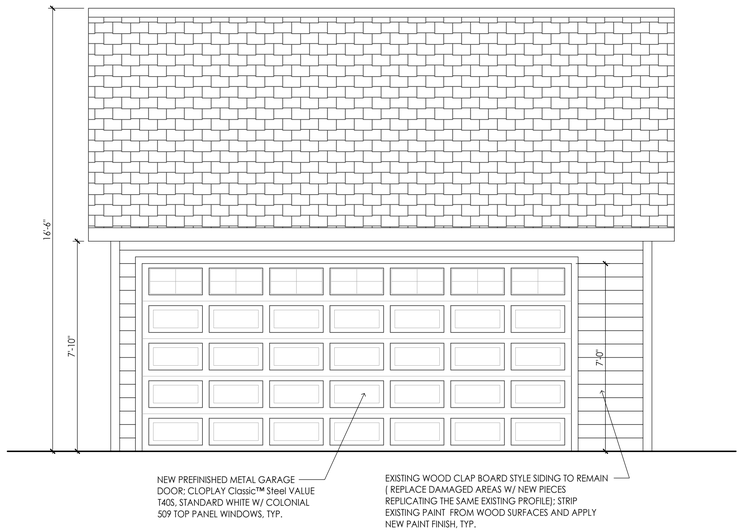
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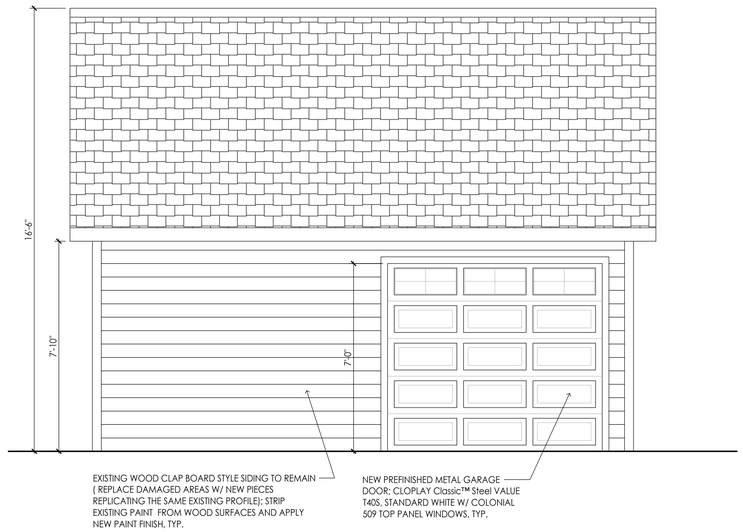
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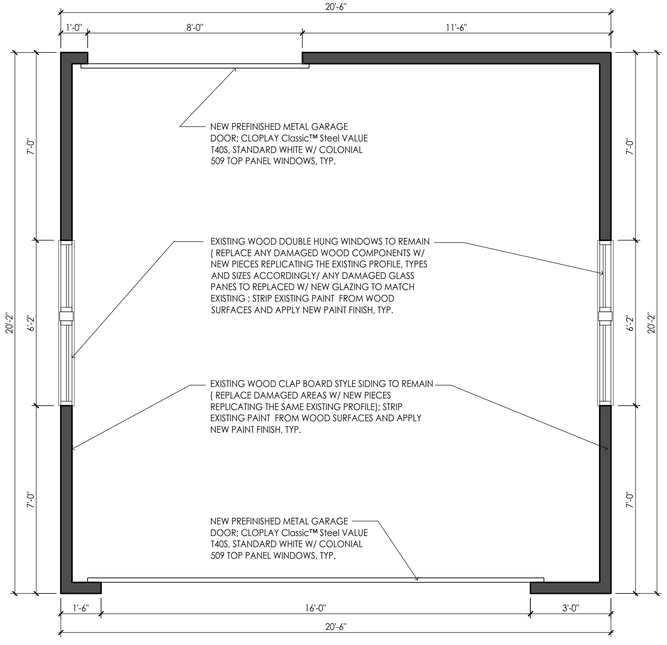
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03 exterior elevation - south
3/8" = 1'-0"



04 exterior elevation - north
3/8" = 1'-0"



01 floor plan - garage
3/8" = 1'-0"



02a existing eave return
(to be replicated)
nts



02 exterior elevation - east + west
3/8" = 1'-0"

architect:

bailey.
built. pllc

architecture.
design . planning

residential . commercial

grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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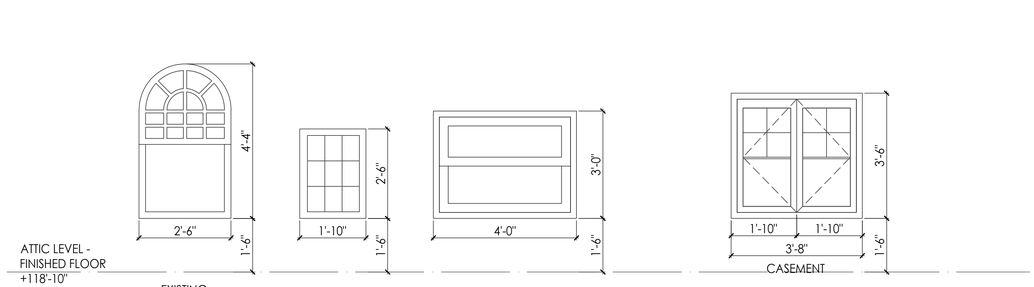
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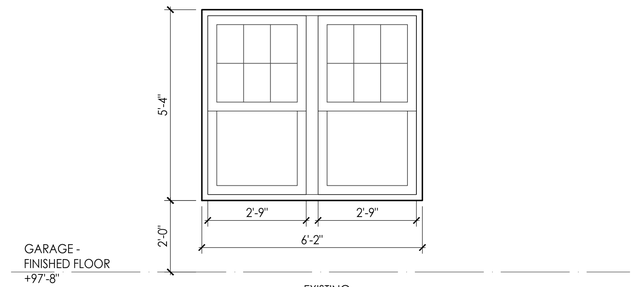
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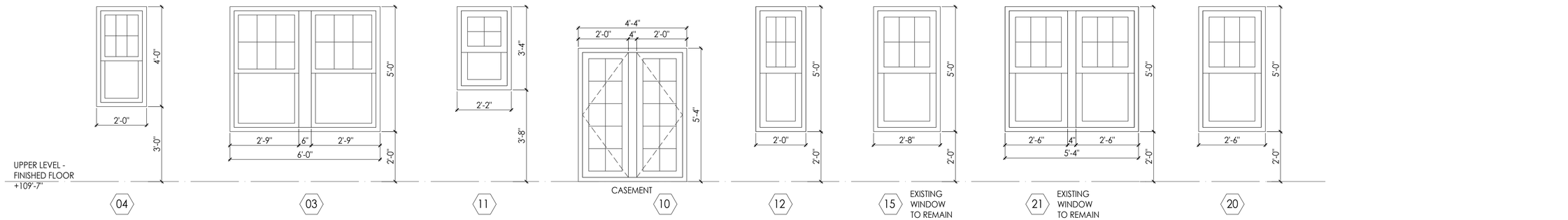
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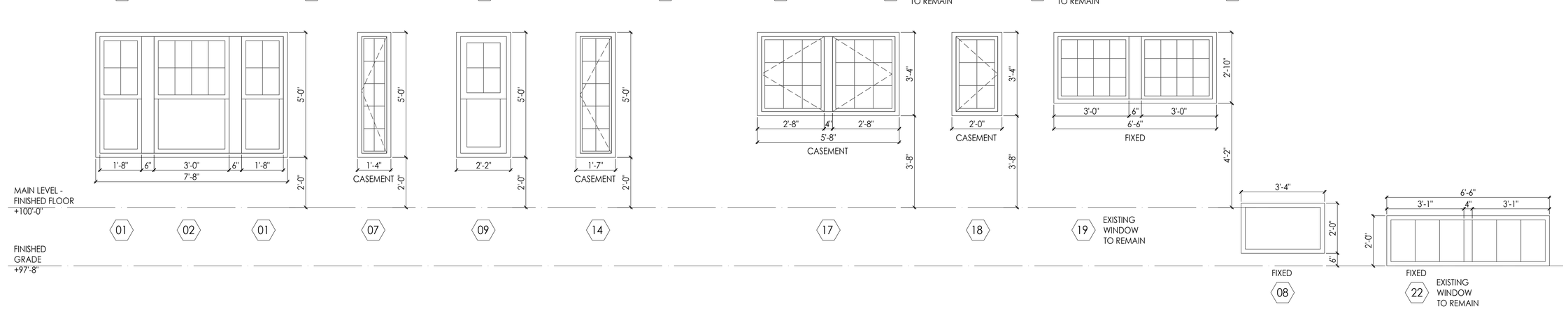
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01 window types
1/2" = 1'-0"

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grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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GEORGE BAILEY
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drawing issue:

hdc review set

client name:

nevar jahwary
stonebridge development group
1142 e. big beaver road
troy, mi 48083

project name:

longfellow residence

2008 longfellow street
detroit, mi 48206

sheet name:

window types

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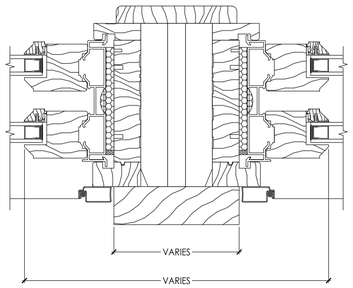
KOLBE WINDOWS & DOORS - *HERITAGE SERIES (WOOD) DETAILS SHOWN HERE*

PELLA® RESERVE™ TRADITIONAL SERIES OR EQUAL TO BE AN ACCEPTABLE SUBSTITUTE



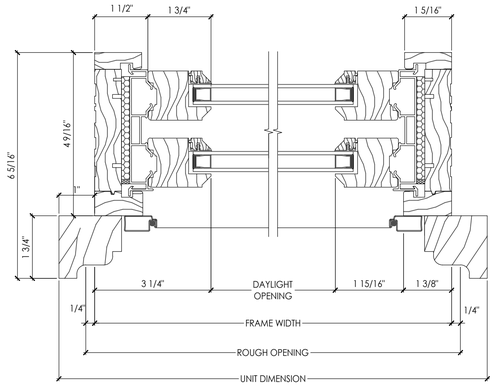


07 existing window conditions
nts



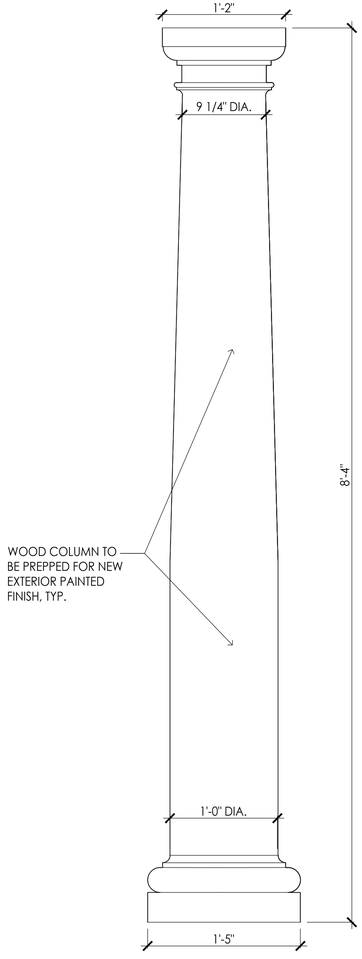
KOLBE WINDOWS & DOORS
HERITAGE SERIES (WOOD)- TRADITIONAL
DOUBLE HUNG - MULLED TO TRADITIONAL
DOUBLE HUNG

04 typical double hung window detail
6" = 1'-0"



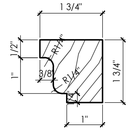
KOLBE WINDOWS & DOORS
HERITAGE SERIES (WOOD) - TRADITIONAL
DOUBLE HUNG - JAMB DETAIL

03 typical double hung window detail
6" = 1'-0"

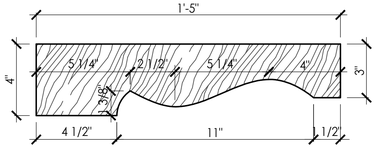


SOMERSET DOOR & COLUMN
CLASSIC ORDER OF
ARCHITECTURE STYLES
TUSCAN #110
(OR EQUAL)

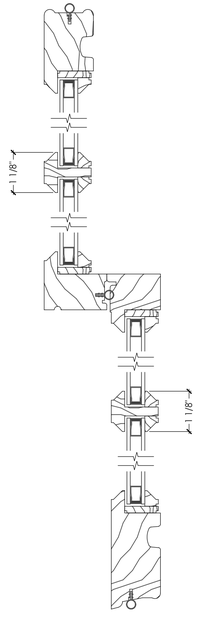
08 exterior porch columns
1 1/2" = 1'-0"



06 brickmold profile (replicated)
6" = 1'-0"

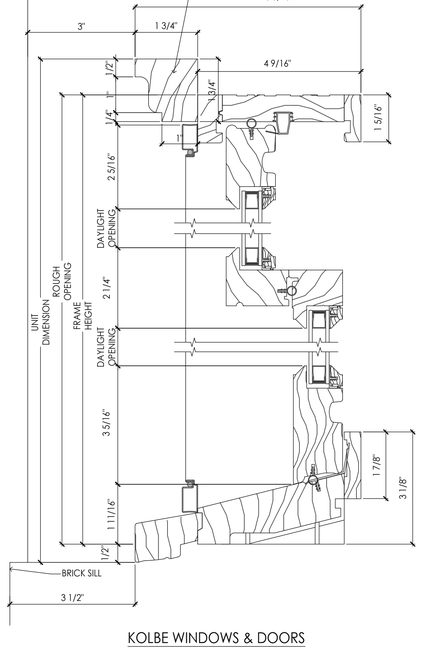


05 dentil trim profile (replicated)
1 1/2" = 1'-0"



KOLBE WINDOWS & DOORS
HERITAGE SERIES (WOOD) - TRADITIONAL
DOUBLE HUNG - DOUBLE PANE GLAZING
TRUE DIVIDED LITE - CROSS SECTION

02 typical double hung window detail
6" = 1'-0"



KOLBE WINDOWS & DOORS
HERITAGE SERIES (WOOD) - TRADITIONAL
DOUBLE HUNG - DOUBLE PANE GLAZING
CROSS SECTION

01 typical double hung window detail
6" = 1'-0"

architect:

bailey. built. pllc
architecture. design . planning
residential . commercial
grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
www.bailey-built.com

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GEORGE BAILEY
No. 1301065827
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GEORGE BAILEY
LICENSE #1301065827
EXPIRES 06 . 23 . 2026

drawing issue:

hdc review set

client name:

nevar jahwary
stonebridge development group
1142 e. big beaver road
troy, mi 48083

project name:

longfellow residence

2008 longfellow street
detroit, mi 48206

sheet name:

details

issue date(s)

03 . 11 . 2026

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05 garage view
nts



03 west view
nts



04 east view
nts



01 north view
nts



02 south view
nts

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grosse pointe woods, mi 48236
voice: 313.451.1462
email: george@bailey-built.com
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1142 e. big beaver road
troy, mi 48083

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sheet name:

exterior views

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KOLBE
WINDOWS & DOORS

Heritage Series



We're for the visionaries.®

We're for people who take building to new levels.



We're for people who are passionate about design, who care about the big picture and the smallest detail. We're for people who aren't satisfied with mainstream choices... who push the limits of what's possible with the options and innovations that can only be found in Kolbe windows and doors.



We're for quality craftsmanship.

We're for a tradition of excellence that outlasts the latest design trend. The Kolbe story began with a family and a vision. More than 75 years after the Kolbe brothers began their commitment to producing premium quality windows and doors, products bearing their family name can be found in some of North America's most impressive homes and businesses.

We're for expertise.

We're for people who dream of a personalized design experience. That's why you can't find Kolbe windows and doors in the aisles of a home center. Our products are only available through a Kolbe dealer, because they are as passionate about windows and doors as you are about bringing your vision to life. And they will work with you to make your dream a concrete reality.





We're for possibilities.

We're for people who won't settle for "standard." We're for limitless options and custom solutions that can only be found in Kolbe's made-to-order products. Our team members are craftspeople who focus on building one window or door at a time, to create distinctive products that fulfill your unique vision.

We're for innovation.

We're for people who want to take building to new levels, with advancements in not only extraordinary sizes and shapes, but also ground-breaking products. We're for creative thinking that redefines what's possible, constantly reimagining our windows and doors to elevate style, performance and functionality.



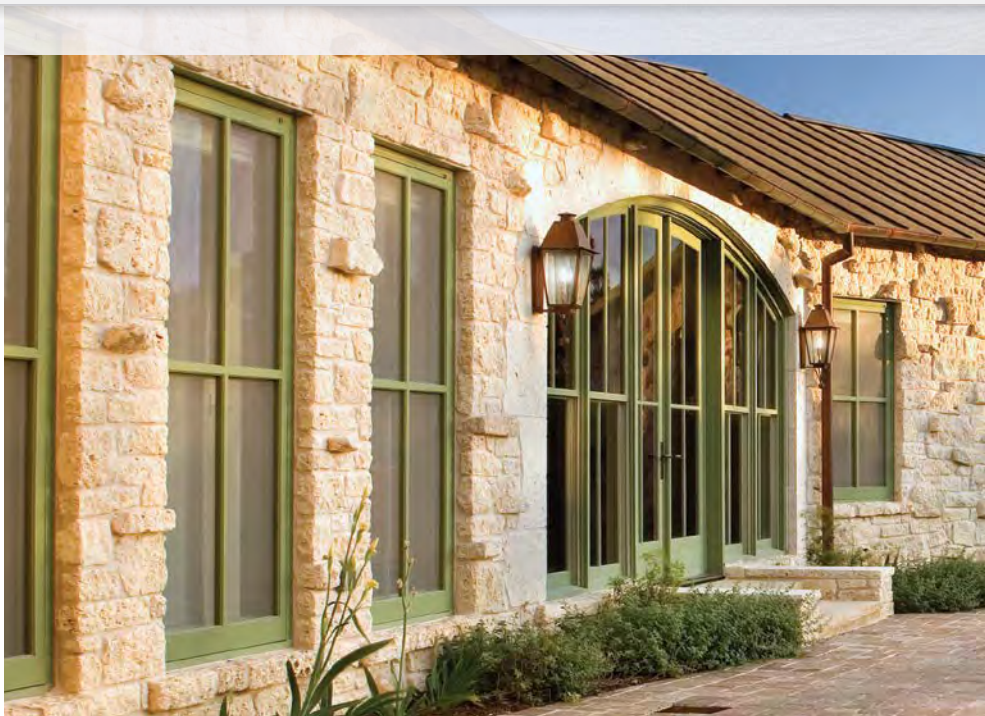
Let us bring your vision to life.



Table of Contents

The Heritage Series 1
Capabilities 2-7
Style & Design Options 5-8
Casements 9-12
Crank-Out Casements 10
Push-Out Casements 11
Inswing Casements 12
Awnings 13-15
Crank-Out Awnings 14
Push-Out Awnings 15
Double Hungs 16-19
Sterling Double Hungs 17
Traditional Double Hungs 18
Old World Classic Double Hungs 19
Specialty Windows 20-23
Folding Windows 21
Radius Windows 22
Geometric Windows 23
Doors: Entrance to Expansive 24-28
Sliding Doors 25
Folding Doors 26
Inswing Doors 27
Outswing Doors 28
Professional Tools 29







© Kenneth M. Wyner Photography

The Heritage Series

All-wood windows & doors designed for architectural & historical authenticity.

Kolbe's Heritage Series windows and doors are carefully crafted with a wood interior and exterior, making it possible to replicate architectural details with authenticity and alignment with historic district requirements. Choose from an extensive array of exterior colors, interior wood species, finishes, divided lite profiles, and more.

The Heritage Series provides:

- Wood exterior available in unfinished, primed, or painted with our K-Kron II finish, for ultimate flexibility
- High performance exterior K-Kron II finish in 40+ standard colors, plus custom blends
- Wood interior in familiar to exotic species, with 20+ standard pre-finishes, plus custom finishes
- Traditional design aesthetics with ability to replicate intricate architectural details
- Divided lite profiles & patterns
- Glazing options for enhanced energy efficiency, decorative & specialty glass needs
- Hardware options & finishes to match any décor
- Automation options for ease of operation


© Marre Design Group



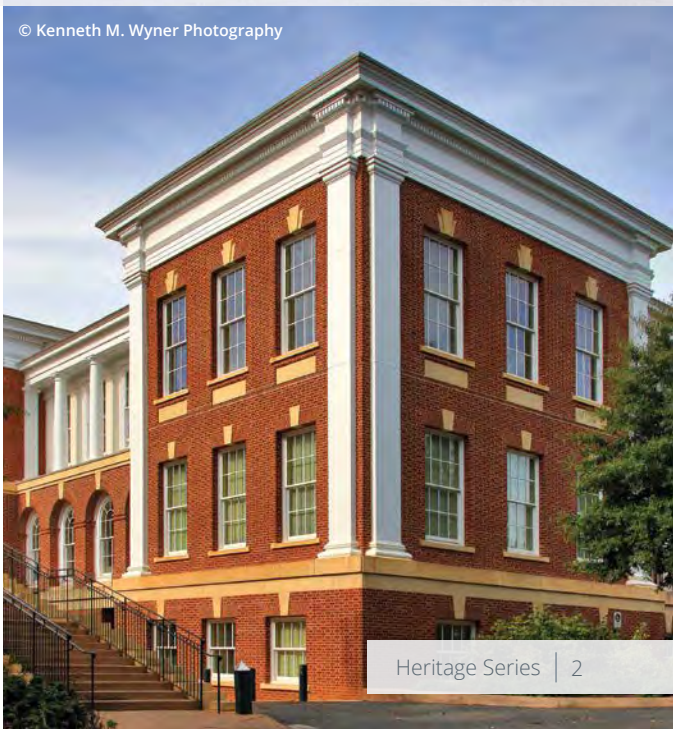

© Scot Hill Photography

Capabilities

Craftsmanship and artistry are hallmarks of Kolbe products. We build innovative windows and doors with a wide array of options. But don't let the standard options limit your imagination.

At Kolbe, we love a good challenge. We welcome projects that require special wood species, custom divided lite patterns, unique shapes, custom finish colors, unusual mulling configurations – you dream it, we'll build it. Our windows and doors are built to order, so you can choose the options that best suit your design and vision. We offer multiple product lines with distinct characteristics and a full breadth of capabilities for customization and personalization.


Photo courtesy of Big Cedar Lodge


© Kenneth M. Wyner Photography

Capabilities

Energy Efficiency

In addition to superior craftsmanship, Kolbe windows and doors offer superior performance. Our products undergo independent testing to ensure the highest quality available. Participation in the Window & Door Manufacturers Association (WDMA) Hallmark Certification and ENERGY STAR® programs ensures that our products are tested to industry standards, allowing them to meet and exceed today's stricter building codes and standards for energy efficiency.

Kolbe's Heritage Series windows and doors can meet the strict California Title 24 Building Energy Efficiency Standards. Talk to your Kolbe dealer about specific products with glass options that help meet these stringent energy efficiency requirements.



Sustainability

Kolbe's all-wood Heritage Series windows and doors offer sustainable solutions for long-lasting, durable products that have a lower carbon footprint than other building materials. Prioritizing resilient design, supported with high-performance products, makes Heritage Series a great choice for the environment.

Our wood species are renewable resources sourced from managed forests, and our standard glass contains 25-30% recycled content. We can also provide The Forest Stewardship Council® (FSC®)-certified wood species for many products (FSC® license code FSC®-C019541).



For energy performance data, visit: **kolbewindows.com/energy**

Kolbe demonstrates a commitment to providing accurate energy data by having products independently simulated, tested, inspected and listed in the NFRC certification program, and making that data available at **kolbewindows.com** and on window labels.

Energy performance data and air, water, structural data is updated on a continuous basis.
For the most current information, contact your local Kolbe dealer.

Kolbe® has been granted The Forest Stewardship Council® (FSC®) Chain-of-Custody Certification, as have many of our dealers. Consult with your dealer about using FSC®-certified wood in your project (FSC® license code FSC®-C019541).

Capabilities

Craftsmanship

Kolbe products are truly built to order, with numerous options and custom solutions that allow us to craft windows and doors exactly to your specifications. You can choose from standard to exotic wood species, sizes, shapes, divided lite profiles and patterns, glass, interior and exterior finishes, brickmoulds, casings, hardware, and more – or we'll work with you to create a custom product, color or finish for a more personalized design.



Moore Architects, LEED® Silver | Photo © Hoachlander Davis Photography

Historical Replication

Heritage Series all-wood products are ideal for replicating architectural details with authenticity, blending traditional design aesthetics with advanced technology, functionality, and optimal energy efficiency. Adhering to strict building codes and historical district requirements, Kolbe's Heritage Series products were the perfect solution for many National Historic Landmarks and National Trust for Historic Preservation projects aross the US.



Photo courtesy of Big Cedar Lodge

Customized options to address historical or architectural design elements are available, including traditional or enhanced glazing options. Please contact your Kolbe dealer.

Style & Design Options

Kolbe offers distinctive style and design options, to make your spaces unique. For the ultimate in personalization, choose from our numerous options, including hardware, glass, divided lites, screens, sills, exterior trim, and more – plus custom solutions to help bring your unique vision to life.

Hardware

Kolbe offers numerous hardware styles and finishes to complement décor or add the finishing touch to a new entrance, sliding or access door. Plus, the added functionality of multi-point locks and automation options on select products adds convenience and security to your living experience. For replicating historic details, chain and pulley systems and spoon locks are available for double hung windows.



Glass

There is so much more to glass than visibility. It can add to the aesthetic, enhance indoor comfort and acoustics, provide privacy or decorative design. When considered holistically, windows and doors can help create environments that offer a sense of well-being and a connection to nature. Kolbe's numerous glass options provide optimum energy efficiency, beauty and performance to enhance your design as well as your lifestyle.

Divided Lites

Add architectural detail to windows and doors with performance divided lites (PDL) or true divided lites (TDL). Choose anything from a traditional, Colonial style pattern to a custom design that accentuates the character and appearance of your home. True divided lites are ideal for historic restoration projects, creating individual panes of glass to mimic original design details. Grilles-in-the-airspace and interior removable wood grilles are also available.



Finish Options

Interior Wood Species

In addition to the standard pine, Heritage Series windows and doors can be constructed of other optional wood species that enhance their look. Pine and other wood species are sourced from managed forests. The Forest Stewardship Council® (FSC®)-certified wood species are also available for green building projects (FSC® license code FSC®-C019541).

Ask about the availability of additional wood species.



Interior Finishes

For units that are ready to install upon delivery, Kolbe's Heritage Series windows and doors can be prefinished on the interior with one of the water-based stains or paints shown. Stained units are given two coats of satin clear finish. Because our interior finishes are water-based, low-VOC stains and paints, you can rest assured you've made an environmentally conscious decision. Custom colors may be requested as well.



Priming options available upon request.

*Applied as a single coat of paint, with some visible wood grain.

Some options for our products may have limited color offerings or may incur a nominal charge. Check with your Kolbe dealer for further details on pricing and availability.

Stain colors are shown on pine. A double coat clear finish is also offered. Since no two trees are identical, wood can be expected to differ both in color and graining. These factors will influence the stain's final color.

Printed images of wood species and stain options will vary from actual product colors. Selections should be made based on color samples available from your Kolbe dealer.

Color-matched interior paint is available through any Sherwin-Williams retail store's National Account System in the United States and Canada.

Finish Options

Exterior Colors

Most Heritage Series windows and doors are coated on the exterior with latex primer, ready for your choice of topcoat. Kolbe also offers K-Kron II – a durable exterior finish that enhances and preserves the look of wood windows and doors.

White	Cloud	Ultra Pure White
Abalone	Alabaster	Camel
Mudpie	Nutmeg	Khaki
Sahara	Beige	Natural Cotton
Spiced Vinegar		
Gingersnap	Truffle	Rustic
Shadow	Shale	Smokestack
Timberwolf		
Sapphire	Coastal Storm	Lunar
Steel Gray	Slate	Castlerock
Emerald Isle		
Cider	Copper Canyon	Basil
Mystic Ivy	Mediterranean	Green Tea Leaf
Hartford Green		
Chutney	Roma	Maize
Custom Colors Available		



Wire Brush Finish

Most of Kolbe's Heritage Series wood windows and doors can be further enhanced by our custom wire brush finish. Wire brushing creates a rugged texture and adds character to complement any rustic design.

Due to the nature of the finishes, certain limitations apply. Contact your local Kolbe dealer for more information.

Some options for our products may have limited color offerings or may incur a nominal charge. Check with your Kolbe dealer for further details on pricing and availability.

Printed images of exterior finishes may vary slightly from actual colors. Selections should be made based on color samples available from your Kolbe dealer.

Accessories

Brickmould & Casing

Accentuate the beauty of your home with Kolbe's exterior brickmoulds and casings. In addition to the casings shown, various sill nosings can be applied to enhance the overall appearance and to create the perfect look. Custom brickmoulds and casings are available as well; talk to your local Kolbe dealer for more information.



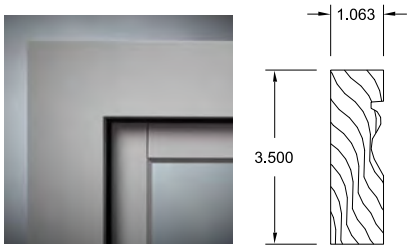
1-15/16" brickmould



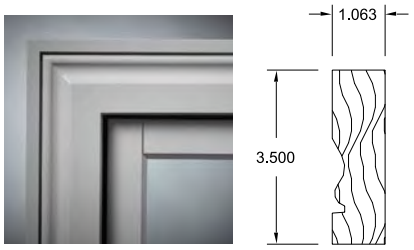
1-15/16" flat casing



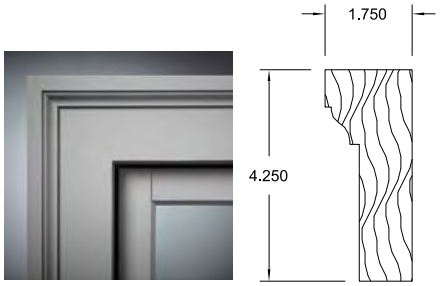
1-15/16" flat casing with backband



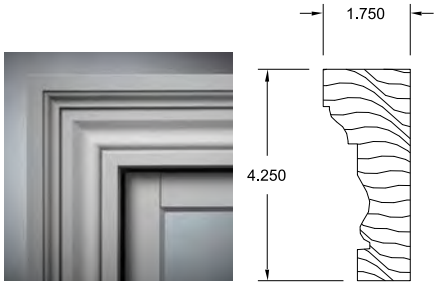
3-1/2" flat casing



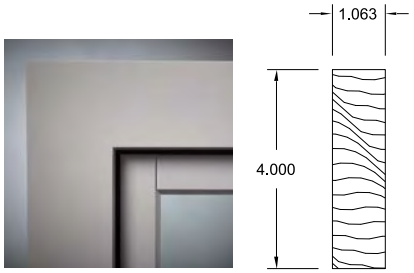
3-1/2" profiled brickmould



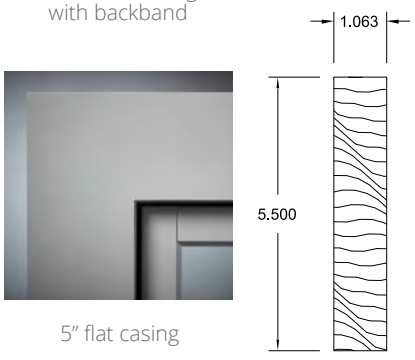
3-1/2" flat casing with backband



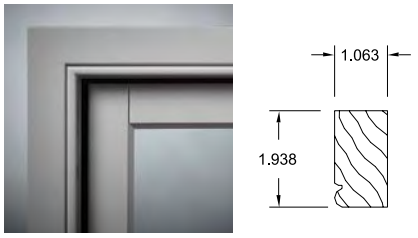
3-1/2" profiled brickmould with backband



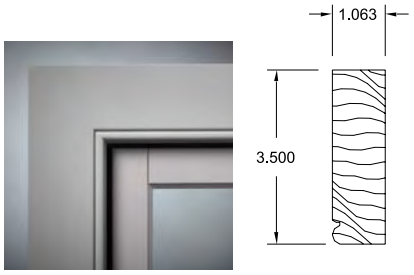
4" flat casing



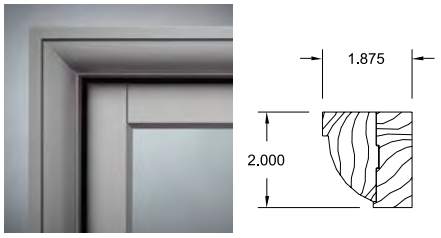
5" flat casing



2" beaded casing



3-1/2" beaded casing



Prospect casing

NOTES: Limitations apply when combining trim options. Not all brickmould profiles are available for all products. Not all profiles are available for radius units. Please consult your local Kolbe dealer for more information.



Click to view more: kolbewindows.com/gallery

Casements

Offering ventilation and plenty of daylight, Heritage Series casements provide excellent energy efficiency. Easy-to-operate handles, corrosion-resistant hardware, and a secure, concealed multi-point locking system on most products contribute to the integrity of these windows. A multitude of styles are available, including French, push-out, inswing, segment head and half-circle top casements.

Crank-Out Casements | Push-Out Casements | Inswing Casements | French Casements | Picture & Transom Units
Picture Combination Units | Bow & Bay Units | Segment Head & Half-Circle Top Units





Crank-Out Casements

Kolbe's crank-out casements combine a simple cranking operation with many options for customization. Swinging out at the side to provide fresh air and ventilation, they close easily and effectively with a tight seal. Crank handles fold down when not in use to prevent interference with window treatments and views.





Standard Features – Crank-Out Casement

- 1-3/4" thick sash
- Overall jamb depth is 4-9/16"
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Interior screens with Clay-colored aluminum frames and BetterVue® fiberglass mesh
- Clay-colored nesting handles, operator covers and multi-point locks* (lock handles match operator handle colors)
- Corrosion-resistant dual-arm operators with concealed, adjustable hinges *(single-arm operators with concealed, adjustable hinges on "S" Series casements; single-arm operators with Euro hinges for added support on segment head and half-circle top units)*

Options – Crank-Out Casement *(not all options are available on all casement types; custom options are also available)*

- K-Kron II exterior paint finish
- French casements
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Universal design handle and lock in White or Clay
- Motorized window system
- Single-arm operators with Euro hinges
- Extension jambs *(up to 12" applied; over 12" shipped loose for field application)*
- Galvanized steel installation clips
- Retractable screen kit; beveled *(standard)* or square retractable screen covers; wood-wrapped screens *(not available on radius top or "S" series units)*; screens with aluminum or UltraVue® fiberglass mesh and wood frame
- Bow and bay options: insulated platforms, support brackets and oak-veneered head and seat boards
- High performance modifications
- Field-applied Window Opening Control Device (WOCD)

View **Style Options & Technical Data** ▸

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.
* Not available on French casements.

Push-Out Casements

Kolbe's push-out casements have a uniquely simple operation. Simply unlock a handle to push open or pull closed. Combining ease-of-operation with authentic style, push-out casements offer Old World aesthetics with today's energy efficiency.





Standard Features – Push-Out Casement

- 1-3/4" thick sash
- Overall jamb depth is 4-9/16" *(basic box depth is 3-1/2" plus extensions)*
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Single-point lever handle in an Oil-Rubbed* finish
- Concealed hinges *(segment head and half-circle top units use Tri-Euro hinges for added support)*

Options – Push-Out Casement *(not all options are available on all casement types; custom options are also available)*

- K-Kron II exterior paint finish
- French push-out casements
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- Galvanized steel installation clips
- Wood frame hinged/swinging screen or retractable screen with BetterVue® fiberglass mesh *(segment head and half-circle top casements are only available with a hinged/swinging screen)*
- Retractable screen covers available as beveled *(standard)* or square; screens with UltraVue® fiberglass mesh *(hinged/swinging screen only)*
- High performance modifications
- Field-applied Window Opening Control Device (WOCD)

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
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* The Oil-Rubbed finish is a living finish, which means that it will change appearance over time with use.

Inswing Casements

Kolbe's inswing casements are inspired by classic French design with modern updates to meet energy efficiency standards, proving it's possible to honor traditionally beautiful design while making a modern architectural statement. Inswing casements open inward for ventilation and are available in single or French units.





Standard Features – Inswing Casement

- 1-3/4" thick sash
- Bottom rail height is 3-1/2"
- Overall jamb width is 4-9/16"
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- Multi-point locking hardware secures the unit
- Bright Brass handle set as standard
- Sash hang on 3-1/2" x 3-1/2" butt hinges in a Bright Brass finish
- Exterior screens with BetterVue® fiberglass mesh and aluminum screen frames in a variety of colors
- A drip-lip applied to the bottom exterior of the sash and a weep channel system on the sill

Options – Inswing Casement *(not all options are available on all casement types; custom options are also available)*

- K-Kron II exterior paint finish
- French inswing casements
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Extension jambs *(up to 7")*
- Screens to match exterior color; screens with aluminum or UltraVue® fiberglass mesh
- Galvanized steel installation clips

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
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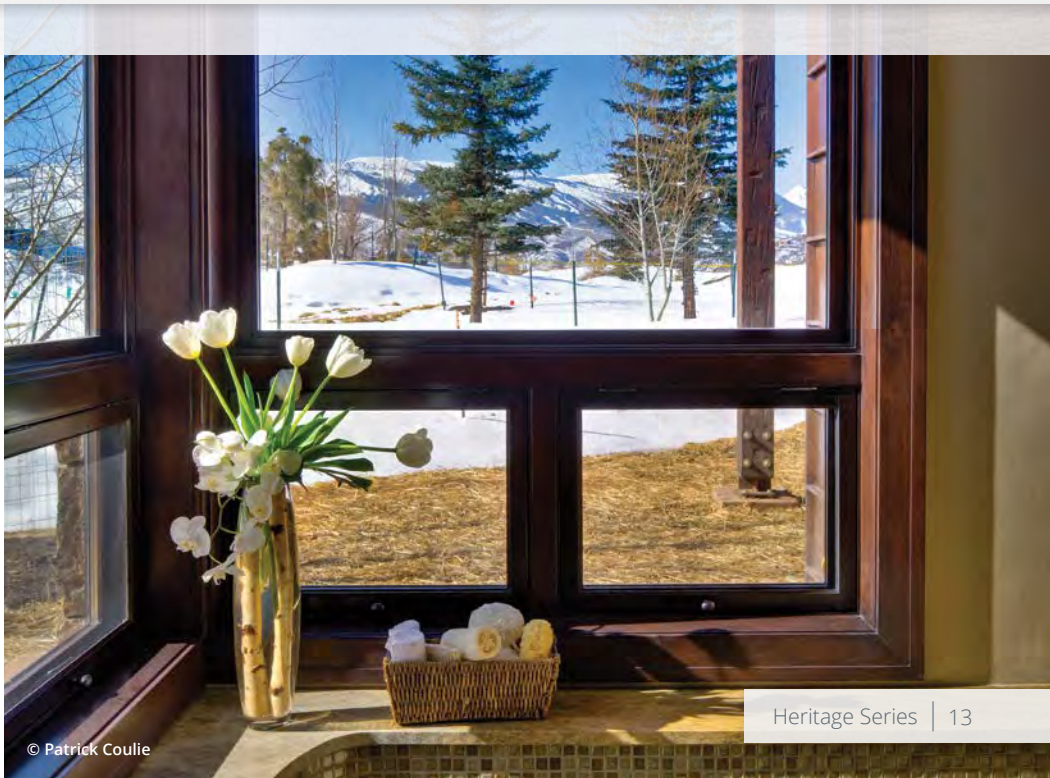
Click to view more: kolbewindows.com/gallery

Awnings

Heritage Series awning windows open outward from the bottom, so they are fully functional even when there is a gentle rain outside. Awnings offer unique style and architectural interest to any room, and are the perfect complement to other Kolbe® windows and doors. Nesting handles and dual-arm operators make these windows easy to operate, with additional light and ventilation..

Crank-out Awnings | Push-out Awnings | Picture Units | Picture Combination Units | Mulled Configurations





Crank-Out Awnings

Crank-out awnings open outward from the bottom with a crank handle that folds down when not in use. Choose motorized operators for an effortless way to open and close your window, especially when it's in a hard-to-reach place.





Standard Features – Crank-Out Awning

- 1-3/4" thick sash
- Overall jamb depth is 4-9/16" *(basic box width is 3-1/2")*
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Exterior wood parts are treated
- 1-15/16" exterior brickmould applied
- Exterior frame and sash are latex applied
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- Interior insect screen with Clay-colored aluminum frame and BetterVue® fiberglass mesh
- Clay-colored nesting handles, operator covers and multi-point locks
- Folding corrosion resistant operators with concealed, adjustable hinges

Options – Crank-Out Awning *(custom options are also available)*

- K-Kron II exterior paint finish
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Universal design handle and lock in White or Clay
- Motorized window system
- Screens with White, Beige, Sand, Dark Bronze Anodized, Clear Anodized, or Coal Black frames
- Screens with aluminum or UltraVue® fiberglass mesh
- Wood wrapped screens; retractable screen kit; beveled retractable screen covers *(standard)* or square
- Extension jambs *(up to 12" applied; over 12" shipped loose for field application)*
- Galvanized steel installation clips
- High performance modifications

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

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Push-Out Awnings

The simple operation of push-out awning windows makes them ideal for adding ventilation to any room. The sash pushes out and pulls in tightly to the frame. Weatherstripping prevents air infiltration, making them another great energy-efficient option.





© Tarleton Photography

Standard Features – Push-Out Awning

- 1-3/4″ thick sash
- Overall jamb depth is 4-9/16″ *(basic box depth is 3-1/2″ plus extensions)*
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- Single-point lever handle in an Oil-Rubbed* finish
- Concealed hinges *(segment head and half-circle top units use Tri-Euro hinges for added support)*

Options – Push-Out Awning *(custom options are also available)*

- K-Kron II exterior paint finish
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Extension jambs *(up to 12″ applied, over 12″ shipped loose for field application)*
- Wood frame hinged/swinging screen or retractable screen with BetterVue® fiberglass mesh *(segment head and half-circle top casements are only available with a hinged/swinging screen)*
- Beveled *(standard)* or square retractable screen covers
- Screens with UltraVue® fiberglass mesh *(hinged/swinging screen only)*
- Galvanized steel installation clips
- High performance modifications

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
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* The Oil-Rubbed finish is a living finish, which means that it will change appearance over time with use.



Photo provided by North Atlantic Corp.

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Double Hungs

Kolbe offers a variety of double hung windows for residential or commercial projects, from historic restoration to remodeling. Quality details adorn the classic design of Heritage Series all-wood double hungs, with smooth operation, venting options, and removable sash for easy cleaning. There are many options and configurations to choose from, including cottage-style and radius-topped units or triple pane glass options for increased energy efficiency.

Sterling Double Hungs | XL Sterling Double Hungs | Traditional Double Hungs
Old World Classic Double Hungs | Cottage-Style & Reverse-Cottage Style | Studio & Transom Units
Picture Combination Units | Segment Head & Half-Circle Top Units | Single Hungs





© Kenneth M. Wyner Photography, Inc.

Sterling Double Hungs

Whether residential or commercial, Sterling double hungs are made to blend seamlessly with the grandest décor. A patented interior wood cover conceals the jambliner, giving the windows a rich, all-wood appearance. The XL Sterling double hung offers a boost in performance and enhances the architectural design with oversized openings.





Standard Features – Sterling Double Hung

- 1-3/4" thick sash
- Overall jamb width is 4-9/16" *(basic box width is 4-9/16")*
- Frame thickness is 3/4" at side jambs and head
- Sill thickness is 1-3/16", slope is 14°
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Wood interior head parting stop
- Clay-colored heavy duty Signature sash lock with a dual positioning lever allows sash to be unlocked, operated and tilted in from one location
- Spring-loaded block-and-tackle mechanical balances to carry the sash weight
- Concealed balance system
- Wood-wrapped jambliner closure on the interior *(unless interior is prefinished white or primed, then jambliner will be white)* and a primed, extruded aluminum jambliner closure on the exterior hides balance system

Standard Features – XL Sterling Double Hung *(includes Sterling double hung standard features, with the exception of the following substitutions):*

- Overall jamb depth is 5" *(basic box depth is 5")*
- Class 5 balances capable of carrying heavier loads

Options – Sterling Double Hung/XL Sterling Double Hung *(custom options are also available)*

- K-Kron II exterior paint finish
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Class 5 balances available for commercial specifications or larger units
- Universal design crank handle hardware kit in White
- Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- Sash limiters for safety
- Galvanized steel installation clips
- Full or half aluminum frame insect screen with aluminum, BetterVue® or UltraVue® fiberglass mesh; retractable insect screen kit with beveled or square cover
- Factory-installed Window Opening Control Device (WOCD)
- Segment head, cottage style segment head, half-circle top, and cottage style half-circle top units
- High performance modifications

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
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Traditional Double Hungs

Kolbe's traditional double hungs offer classic styling, with a sloped sill to help guard against water damage. Available as cottage-style units or radius-top shapes, traditional double hungs open and close smoothly and effortlessly, with a tilt-in or removable sash for easy cleaning.


© Pearson Photography


Moore Architects, LEED Silver | Photo © Hoachlander Davis Photography

Standard Features – Traditional Double Hung

- 1-3/8" thick sash
- Overall jamb depth is 4-9/16" *(basic box depth is 4-9/16")*
- Frame thickness is 3/4" at side jambs and head
- Sill thickness is 1-3/16"; slope is 14°
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- Rigid PVC head parting stop with flexible fins and waterseal at the sill
- Clay-colored heavy duty sash lock
- Machined finger grooves on the top rail of the upper sash and bottom rail of the lower sash
- Spring-loaded block-and-tackle mechanical balances to carry the sash weight
- Beige PVC jambliners with compression foam backing

Options – Traditional Double Hung *(custom options are also available)*

- K-Kron II exterior paint finish
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- No finger grooves in top, bottom or both sash
- White jambliners
- Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- Full or half screens with aluminum frames and options for BetterVue® or UltraVue® fiberglass screen mesh or aluminum screen mesh; frames will match the exterior color of the unit
- Factory-installed Window Opening Control Device (WOCD)
- Sash limiters for safety
- Galvanized steel installation clips

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
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Old World Classic Double Hungs

Old World Classic double hungs bear the charm and character of early double hung windows. Ideal for historically-accurate replication projects, their visible brass pulley system with solid brass chains and alloyed weights accentuates the design details, while allowing fluid operation. Specifically engineered for each unique project, Old World Classic windows offer an unprecedented level of customization – even as triple hungs, radius-tops, and cottage-style units.





Standard Features – Old World Classic Double Hung

- 1-3/4" thick sash
- Basic frame jamb width is 6-9/16"
- Constructed of pine with pine interior head parting stops and side stops
- Energy efficient, insulating Solar Low-E glass
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Heavy duty sash lock with Antique Brass finish
- Brass chains and pulleys
- A proportionate balance between sash and alloyed weights creates a one-to-one ratio

Options – Old World Classic Double Hung *(custom options are also available)*

- K-Kron II exterior paint finish
- Interior casing
- Prep for stool
- Exterior brickmould and casing *(pg. 8)*
- Projected sill nosing, extended sill horns or no sill nosing
- Available as single, double or triple hung
- Ogee lugs integrated into the top sash stiles
- Oil-Rubbed*, Bright Brass, Polished Nickel and Satin Nickel chains and pulleys
- Half or full screens with BetterVue® or UltraVue® fiberglass screen mesh, or aluminum mesh, and aluminum frames that match unit's exterior color
- Galvanized steel installation clips
- High performance modifications



Brass chains and pulleys



Brass sash locks



Optional ogee lugs

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
* The Oil-Rubbed finish is not available on curved sash lift handles.
This is a living finish, which means that it will change appearance over time with use.
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Customized options to address historical or architectural design elements are available. Please contact your Kolbe dealer.



Photo © Dan Mullins

Click to view more: kolbewindows.com/gallery

Specialty Windows

Heritage Series specialty windows are available in a variety of sizes, shapes and styles. Add radius or geometric windows to create a focal point, extend the daylight or replicate architectural details. Half-circle or elliptical units stacked above other Kolbe windows and doors create gracious curves and allow more light to enter your room. Follow the slope of a roofline or comprise a window wall with a variety of angled shapes, from triangles and trapezoids to pentagons, diamonds, or any shape you can imagine. Integrate pass-through capabilities with expansive folding windows and screens.

Folding Windows | *Radius Windows* | *Geometric Windows*





Folding Windows

Folding windows can infuse a room with a remarkable amount of fresh air by offering openings up to 52 feet wide. With up to 8 panels per side, folding windows are highly customizable with numerous configurations available. These made-to-order windows open up spaces dramatically by extending the living area to the outdoors, and allowing pass-through convenience.





Standard Features – Folding Windows

- 1-3/4″ thick sash
- 6-9/16″ minimum jamb width
- Folding windows feature LVL locking stiles; stiles and rails are a nominal 3″ wide
- Frame setup up to 177″ wide x 77-1/8″ tall; all others knocked down
- Constructed of pine with pine interior stops
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame is latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- Bronze Anodized weep sill
- Grooved guide rollers with adjustable, ball-bearing wheels carry the folding panels
- Multi-point* mortise latch with handle set in a Bright Brass finish
- Thick oak interior threshold

Options – Folding Windows *(custom options are also available)*

- K-Kron II exterior paint finish
- 2-1/4″ thick panel
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Single-point hardware for access panel
- Concealed shootbolt locking hardware for folding panels
- Stile and top rail options: 4-5/8″ or 6″
- Bottom rail options: 4-5/8″, 6″, 7-9/16″ or 12-5/8″
- 2-1/4″ thick panel
- Extension jambs in a wide variety of sizes *(shipped loose for field application if over 12″)*
- Face-mounted flush bolt locking hardware on folding panels
- Uno or Aria handle set for folding panels with concealed shootbolt locking hardware
- Hinges with handles in Bright Brass, Chrome, Satin Nickel and Matte Black
- Finger pulls for panels without hinge handles
- Magnetic latches or panel stays to help keep windows stationary while open
- Black pleated retractable insect screens; black pleated sliding screens on units with the frame setup
- Recessed floor track sill *(interior)*, weep or non-weep in Bronze Anodized finish
- Clear Anodized weep sill
- Galvanized steel installation clips

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
Minimum panel height is 36″, minimum panel width is 16″, maximum panel height is 72″ and maximum panel width is 39-3/8″.
* Minimum panel height for multi-point hardware is 36″.

Radius Windows

Kolbe makes radius windows in stand-alone full circles, half-circles, quarter-circles, ellipticals, ovals and custom shapes. Half-circle or elliptical windows can be stacked over other Kolbe windows and doors to create larger window walls. We build our radius windows to order so that their profiles match those of the windows they complement.


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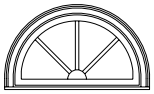
Standard Features – Radius Windows

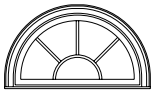
- 1-3/4″ thick sash
- Overall jamb width is 4-9/16″
- 3″ straight legs on half-circles
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazing is sash set to the interior with beveled wood glazing beads

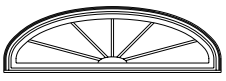
Options – Radius Windows *(custom options are also available)*

- K-Kron II exterior paint finish
- Custom shapes such as bell-tops and gothic-tops
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Glazing may be direct set
- Extended legs or no legs on half-circles
- Extension jambs *(up to 12″ applied; over 12″ shipped loose for field application)*
- Galvanized steel installation clips
- High performance modifications

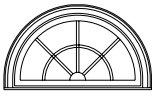
Radius Divided Lite Patterns *Dimension calculation formulas for radius units vary per unit and application. Please contact your Kolbe dealer for formulas.*

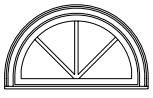

Sunburst

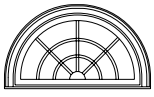

Open Hub Sunburst


Elliptical Sunburst

NOTE: 2-1/4″ PDL bars are not available for patterns with curved bars. Some designs may have a composite material for the exterior PDL bar.


Double Cut Sunburst


Starburst


Triple Cut Sunburst


Spider Web

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.

Geometric Windows

Make your design truly distinctive with Kolbe's geometric windows. These angled attention-grabbers create an impactful focal point and accentuate the architectural design. Kolbe can produce various window shapes and sizes, with a vast array of glazing options to create a light-filled room with a uniquely framed view..


© Roger Wade


© Dan Mullins

Standard Features – Geometric Windows

- 1-3/4" thick sash
- Overall jamb width is 4-9/16"
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and sash are latex primed
- Energy efficient, insulating Solar Low-E glass
- Glazing is sash set to the interior with beveled wood glazing beads
- Standard geometric shapes include triangles, octagons, hexagons, pentagons, trapezoids, and diamonds

Options – Geometric Windows *(custom options are also available)*

- K-Kron II exterior paint finish
- Custom shapes
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Glazing may be direct set
- Extension jambs *(up to 12" applied, over 12" shipped loose for field application)*
- Galvanized steel installation clips
- High performance modifications

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.



Click to view more: kolbewindows.com/gallery

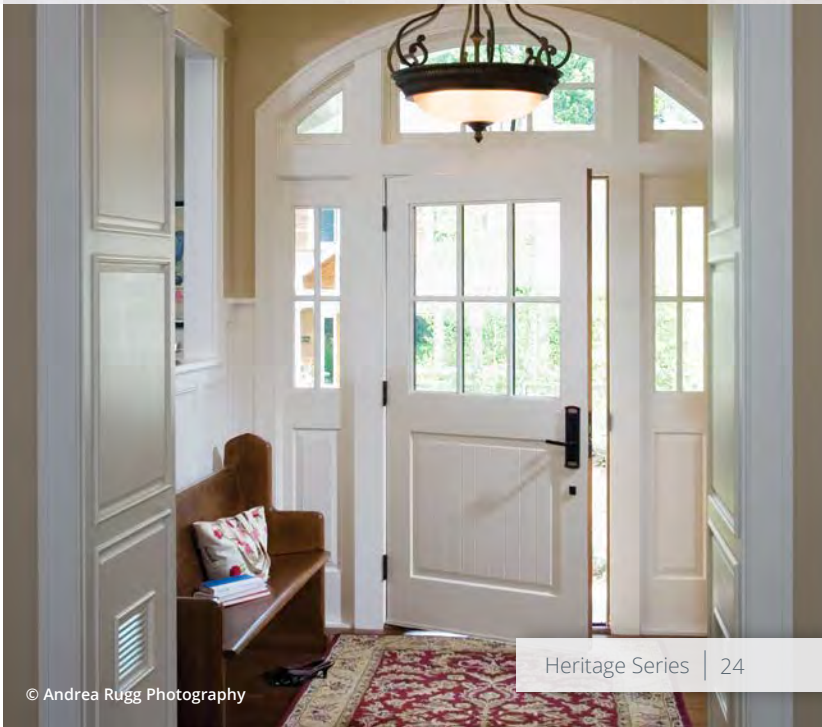
Doors: Entrance to Expansive

Whether it's a stunning entryway or a passageway to an outdoor living area, Heritage Series doors bring beauty and elegance to any project. Customize an entry to exemplify your personal aesthetic or enhance your swinging doors with matching transoms, sidelites or radius units. Take indoor-outdoor living to various levels with sliding or folding doors, utlizing Kolbe's custom solutions and nearly endless options for glass, divided lites, hardware, finishes, and more.

Sliding Doors | Folding Doors | Inswing Doors | Outswing Doors | Raised Panel Doors
French Doors | Sidelites & Transoms | Commercial Doors



© Owl Hill Studios

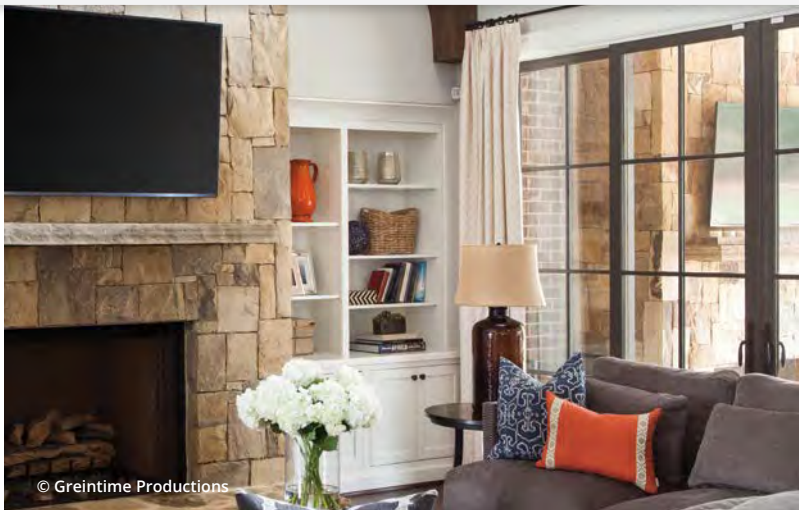


© Andrea Rugg Photography

Sliding Doors

Sliding doors are a space-saving way to connect your indoor and outdoor living spaces. Slide them from side-to-side to operate in two-, three- or four-wide configurations to create easy access to the outdoors. Sliding doors are available in various sizes to accommodate new construction or remodeling projects.





Standard Features – Sliding Doors

- 1-3/4″ thick sash
- Standard jamb width is 5″
- 3″ wide LVL stiles and rails
- Frame setup
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- All wood interior for clean look
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame and panels are latex primed
- Tandem rollers with adjustable, ball-bearing wheels carry the sliding panel
- Single-point mortise latch with handle set in a Bright Brass finish
- Screens with BetterVue® fiberglass mesh and extruded aluminum frames
- One-piece, pultruded fiberglass sill with continuous aluminum sill nosing and fiberglass sill filler
- Thick oak interior threshold

Options – Sliding Doors *(custom options are also available)*

- K-Kron II exterior paint finish
- Available with wide stiles and rails *(stiles and top rail are a nominal 4-5/8″, bottom rail is 7-9/16″ or 12 5/8″)*
- 2-1/4″ thick panels
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Two types of escutcheon styles: bell and arch *(multi-point only)*
- Multi-point lock
- Keyed lock
- Secondary security lock
- Corrosion-resistant hardware
- Automated operation
- Sliding screen with fiberglass mesh and extruded aluminum screen frames
- Screens with UltraVue® fiberglass mesh or aluminum mesh
- Extension jambs in a wide variety of sizes *(shipped loose for field application)*
- Galvanized steel installation clips
- High performance modifications

Operational Options

3-Wide Unit

- Operation = Active-Fixed-Active (AFA)

4-Wide Unit

- Operation = Fixed-Active-Active-Fixed (FAAF)

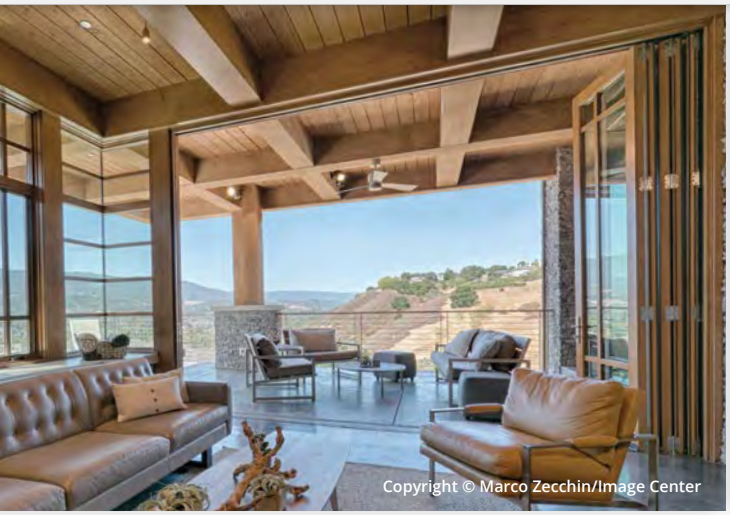
View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
BetterVue® and UltraVue® are registered trademarks of PHIFER INCORPORATED.

Folding Doors

Breathe in fresh air, add architectural interest, and merge outdoor and indoor spaces with folding doors that swing out, fold to one side, or split and fold to either side. With up to 8 panels per side, folding doors allow massive views up to 45 feet wide – plus 90˚ custom corner configurations. Enjoy indoor-outdoor living with these expansive openings.





Standard Features – Folding Doors

- 1-3/4″ thick sash
- 6-9/16″ minimum jamb width
- Folding doors feature LVL locking stiles; stiles and top rails are a nominal 4-5/8″ wide; bottom rail is a nominal 7-9/16″ high
- Frame setup up to 177″ wide x 106″ tall; all others knocked down
- Constructed of pine with pine interior stops
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame is latex primed
- Energy efficient, insulating Solar Low-E glass *(tempered glass is standard on folding doors)*
- Glazed to the interior with beveled wood glazing beads
- Bronze Anodized weep sill
- Grooved guide rollers with adjustable, ball-bearing wheels carry the folding panels
- Multi-point mortise latch with handle set in a Bright Brass finish
- Face-mounted flush bolt locking hardware on folding panels
- Thick oak interior threshold

Options – Folding Doors *(custom options are also available)*

- K-Kron II exterior paint finish
- Bottom rail options: 4-5/8″, 6″ or 12-5/8″
- 2-1/4″ thick panel
- Extension jambs in a wide variety of sizes *(shipped loose for field application if over 12″)*
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Concealed shootbolt locking hardware for folding panels
- Single-point hardware for access door
- Black pleated sliding screens available up to 177″ wide x 102″ tall *(screen opening size; screen only available on units with the frame setup)*
- Recessed floor track sill *(interior),* weep or non-weep in Bronze Anodized finish
- Clear Anodized weep sill
- Galvanized steel installation clips

View **Style Options & Technical Data**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
Limitations may apply. See your Kolbe dealer for product specifics.

Inswing Doors

Whether it's an entrance door or a sliding door, Kolbe offers custom options to personalize any entryway. Choose from various glass, panel configurations, wood species and finishes to make a personal statement. Add further distinction to a single, double or French unit with sidelites or transoms.





Standard Features – Inswing Doors

- 1-3/4" thick sash panel prehung in the 1-5/16" frame; entrance doors are prehung in the 3/4" frame with a 9/16" stop
- Standard jamb width is 4-9/16"
- LVL locking stiles; stiles and top rails are a nominal 4-5/8" wide; bottom rail is a nominal 7-9/16" high
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Joints between stiles and rails are fastened with splined hardwood dowels
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- 1-15/16" exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame is latex primed
- Hoppe® European style Toronto handle set in a Bright Brass finish
- HLS 9000 stainless steel multi-point locking hardware on single door panels; French doors have a 3-point lock on the active panel and a 2-point lock on the less active panel
- Adjustable, 4" x 3-5/8" hinges with 5/8" radius corners in a Gold-painted finish
- Sliding screen with BetterVue® fiberglass mesh and extruded aluminum frames
- Bronze Anodized aluminum, self-draining exterior sill with an oak interior threshold

Options – Inswing Doors *(custom options are also available)*

- K-Kron II exterior paint finish
- 2-1/4" thick door panels
- Extension jambs in a variety of sizes
- 3" or 6" optional stiles and optional 12-5/8" bottom rail
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- 2-point flush bolt lock on less active panel of French doors
- Single-point locking system
- Electronic multi-point lock *(available for select single-panel doors up to 8' high with stiles wider than 3"; not available on double or French door configurations. Not recommended for coastal applications.)*
- Adjustable, 4" x 3-5/8" hinges with 5/8" radius corners in additional finishes
- Non-adjustable, residential 4" x 4" ball-bearing hinges with 1/4" radius corners in a variety of finishes
- Non-adjustable, commercial-grade 4" x 4" ball-bearing hinges with square corners, and 4-1/2" x 4-1/2" hinges in select finishes
- Self-closing, swinging screen includes a spring-loaded lock, aluminum screen frame to match unit exterior and choice of BetterVue® or UltraVue® fiberglass mesh or aluminum mesh
- Clear Anodized weep sill
- Adjustable sills in Bronze or Clear Anodized
- Oak or Mahogany sills
- Thermal break or non-thermal break ADA-compliant sills
- Galvanized steel installation clips

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
All-wood sills are not recommended for use in high moisture conditions.
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Outswing Doors

Outswing doors are available with the same multitude of options as inswing doors, but swing outward for areas that have space constraints. Outswing entrance doors are available in single, double and French units, and can be customized with sidelites or transoms to create a distinctive opening.





Standard Features – Outswing Doors

- 1-3/4″ thick sash panel, prehung in the 1-1/16″ frame with a 1/2″ rabbeted-in stop
- Standard jamb width is 4-9/16″
- LVL locking stiles; stiles and top rails are a nominal 4-5/8″ wide; bottom rail is a nominal 7-9/16″ high on all doors
- Constructed of pine, with pine interior stops and wood mull casings on mulled units
- Joints between stiles and rails are fastened with splined hardwood dowels
- Energy efficient, insulating Solar Low-E glass
- Glazed to the interior with beveled wood glazing beads
- 1-15/16″ exterior brickmould applied
- Exterior wood parts are treated
- Exterior frame is latex primed
- Hoppe® European style Toronto handle set in a Bright Brass finish
- Non-adjustable, residential 4″ x 4″ ball-bearing hinges with 1/4″ radius corners in a Bright Brass finish
- Bronze Anodized aluminum bumper sill with oak interior threshold

Options – Outswing Doors *(custom options are also available)*

- K-Kron II exterior paint finish
- 2-1/4″ thick door panels
- Extension jambs *(up to 12″ applied; over 12″ shipped loose for field application)*
- 3″ or 6″ optional stiles and optional 12-5/8″ bottom rail
- High profile panel moulding
- Interior casing
- Exterior brickmould and casing *(pg. 8)*
- Electronic multi-point lock *(available for select single-panel doors up to 8′ high with stiles wider than 3″; not available on double or French door configurations. Not recommended for coastal applications.)*
- HLS 9000 stainless steel multi-point locking hardware on single panel doors; French doors have a 3-point lock on the active panel and a 2-point lock on the less active panel
- 2-point flush bolt lock on less active panel of French doors
- Single-point locking system
- Adjustable, 4″ x 3-5/8″ hinges with 5/8″ radius corners in a variety of finishes
- Non-adjustable, residential 4″ x 4″ ball-bearing hinges with 1/4″ radius corners in additional finishes
- Non-adjustable, commercial- grade 4″ x 4″ ball-bearing hinges with square corners, and 4-1/2″ x 4-1/2″ hinges in select finishes
- Clear Anodized bumper sill
- Oak or Mahogany sill
- Thermal break or non-thermal break ADA-compliant sill
- Galvanized steel installation clips
- High performance modifications

View **Style Options & Technical Data ▸**

(Click to view hardware, glass, divided lites, finishes, and more, as well as performance and specification details.)

NOTE: All measurements are nominal.
All-wood sills are not recommended for use in high moisture conditions.

Professional Tools

Kolbe prides itself on offering the tools and resources architects, builders and other industry professionals need to complete their projects. From product specifications and 3D models to continuing education courses and webinars, Kolbe supports all of your project needs.



Photo provided by North Atlantic Corp.

AIA/CES Courses

As a Registered AIA Continuing Education Services (CES) provider, Kolbe provides AIA Learning Units (LU) and/or Health, Safety & Welfare (HSW) credits as required per state and/or professional memberships to meet yearly requirements.

Virtual Showrooms

Experience Kolbe's full capabilities through two interactive showrooms filled with product displays and custom solutions.

Showroom Tour

Browse through 26 displays to see Kolbe's innovative products and options in unique configurations.

Exhibit Tour

brand new booth from IBS 2023, filled with trendy solutions for modern living.





Navigate the **Virtual Showrooms**

Architect Library

Kolbe's Architect Library is the main resource for specifying Ultra Series windows and doors. Search detailed product information and technical data, including:

- Cross section drawings
- Elevation charts
- 3D Revit® models
- CSI specifications
- Installation instructions

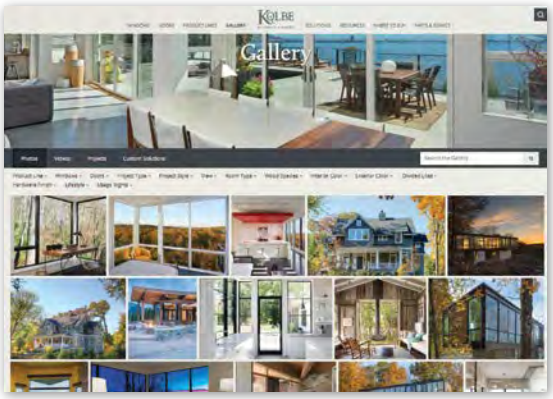
Additional resources include:

- Door configurations
- Clear openings
- Care & maintenance guide
- Acoustic data
- Energy performance
- Performance class & grade
- Product brochures
- Color & design samples
- Warranties

Explore **Professional Tools**

Inspiration Gallery

Browse through photos, videos, project profiles and custom solutions.



Browse the **Inspiration Gallery**



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1323 S. 11th Avenue | Wausau, WI 54401-5998
715.842.5666

www.kolbewindows.com

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Front cover photo: Moore Architects, LEED® Silver | © Hoachlander Davis Photography

Heritage Series Brochure-0824-DIG

Product Selection Guide
- Size and Performance Data W-HG-2
- Features and Options W-HG-3

Combination Assemblies W-HG-4

Glazing Performance W-HG-6

Grille Types
- Grille Profiles W-HG-10
- Grille Patterns W-HG-11

Size Tables for Double- and Single-Hung W-HG-12
- Cottage Sash Units W-HG-14
- Replacement Units W-HG-15

Design Data
- Miscellaneous Formulas W-HG-19
- Double- and Single-Hung W-HG-20
- Replacement Units W-HG-25

Detailed Product Descriptions W-HG-30

Unit Sections
- Wood Collection W-HG-32
- Double-, and Single-Hung Clad W-HG-33
- Single- and Double-Hung Wood W-HG-39

Supporting documents for this product:

(Link path included for easy copy/paste sharing, click on links to open document or access by visiting Pella.com)

Test Reports:

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_PR-Clad.pdf?utm_source=pdfdoc

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

https://media.pella.com/professional/adm/Wood-CSI_Specs/08552-R.rtf ?utm_source=pdfdoc

AIA Masterspec
(readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc?utm_source=pdfdoc

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

Clad: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-C.rtf?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-W.rtf?utm_source=pdfdoc

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

https://media.pella.com/professional/adm/Clad-Wood/ASCDHEV_D.dwg?utm_source=pdfdoc

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

Clad: https://media.pella.com/professional/adm/Clad-Wood/ASRM5DH3_D.dwg?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/ASWM4DHRPT3b.dwg?utm_source=pdfdoc

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

https://media.pella.com/professional/adm/RevitFiles/PR-Revit/Window-Double_Hung-Pella-Reserve-Traditional.zip?utm_source=pdfdoc

Sketchup
(requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_PellaReserve_Traditional_Double-Hung.zip?utm_source=pdfdoc

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf?utm_source=pdfdoc

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf?utm_source=pdfdoc

Impact-Resistant Double-Hung, Complete Product Information:

https://media.pella.com/professional/adm/Clad-Wood/Pella-ImpactResistant_DoubleHung.pdf?utm_source=pdfdoc

Bay/Bow Details:

https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood_BayBowWindows.pdf?utm_source=pdfdoc

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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.

Air/Water/Structural Performance[1]	
Meets or Exceeds AAMA/WDMA Ratings	H-CW30 - CW50 Hallmark Certified
Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)[2]	0.11
Water Resistance	4.6 – 7.5 psf
Design Pressure	30 – 50 psf

Other Performance Criteria	
Forced Entry Resistance Level (Minimum Security Grade)[3]	10
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing)[4]	40/45

Sound Transmission Class / Outdoor-Indoor Transmission Class

Product	Frame Size Tested[5]	Glazing System				STC Rating	OITC Rating
		Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness	Third Pane Thickness		
Clad Double-Hung Window	WITHOUT GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	28	24
	47" x 59"	11/16"	5mm	3mm	—	31	27
	45" x 65"	11/16"	3mm	6mm PVB	—	33	28
Wood Double-Hung Window	WITHOUT GRILLES						
	45" x 65"	11/16"	2.5mm	2.5mm	—	26	22
	45" x 65"	11/16"	3mm	3mm	—	29	24

(—) = Not Available

(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.

(2) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.

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

(4) Glazing configurations may result in higher operational forces

(5) 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 Insulating Glass	—
Insulated Glass Options/Low-E Types	
Advanced Low-E	SunDefense™ Low-E
	SunDefense+ Low-E
	AdvancedComfort Low-E
	NaturalSun Low-E
	NaturalSun+ Low-E
	Clear (no Low-E coating)
Additional Glass Options	
Annealed Glass	Tempered Glass
	Obscure Glass[1]
	Low-E Tinted Glass (Bronze, Gray and Green)
	Non-Impact Laminated Dual-Pane Insulating Glass
Gas Fill/High Altitude	
Argon	High altitude
Exterior	
Exterior Sash Profile	
Ogee	Putty Glaze
Exterior Finish	
EnduraClad® aluminum-clad exterior	EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior
Cladding Colors	
Standard colors[1]	Feature Colors, Custom Colors[1]
Interior	
Unfinished wood	Factory primed
	Factory prefinished paint[1]
	Factory prefinished stain[1]
Wood Types	
Pine	Mahogany, Douglas Fir
Hardware	
Hardware Types	
Sash lifts, Cam-action lock	Simulated lock
	Air conditioner lock
	Historical spoon-style lock (surface mounted)
Hardware Finishes	
Champagne, White, Brown or Matte Black	Satin Brass, Satin Nickel, Oil-Rubbed Bronze, Distressed Bronze, Distressed Nickel[4]
Tilt-Wash Cleaning	
Tilt to interior on both sashes	—
Grilles	
Integral Light Technology® Grilles	
—	Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom
Grilles-Between-the-Glass	
—	Traditional, Prairie, Top Row[1], Cross, Custom-Equally Divided
Screens	
—	Integrated Rolscreen® - retractable screen, InView™ screens, in standard roll-form or premium extruded aluminum frame

(—) = Not Available

(1) Contact your local Pella sales representative for current designs and color options.

(2) Only available for Pella Reserve products with triple glazing. Not available with high altitude glazing.

(3) Available with Low-E argon-insulated glass only.

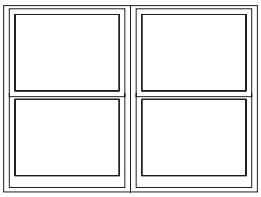
(4) Antique Brass, Distressed Nickel, Distressed Bronze finishes available for Historical spoon-style lock only.

Combination Assemblies - Rectangular Units

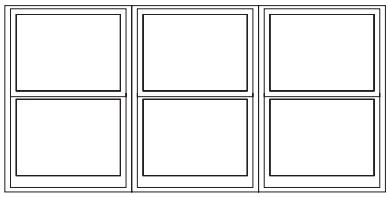
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are some examples of factory-assembled combinations. See the Combinations Recommendations document for typical mullions, requirements and limitations.

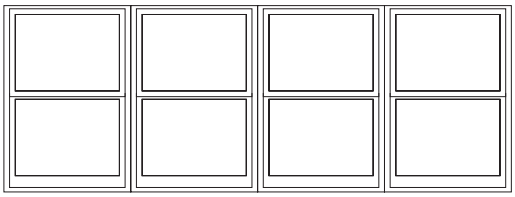
Contact your local Pella sales representative for more information.



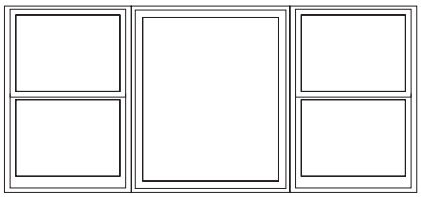
Two-Wide



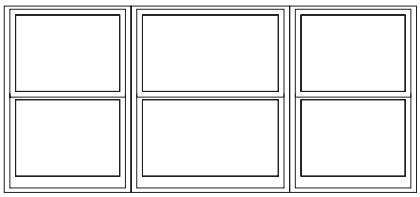
Three-Wide Equal



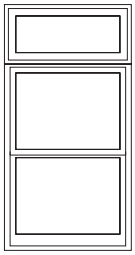
Four-Wide Equal



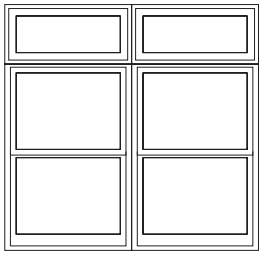
Center Fixed with Flankers



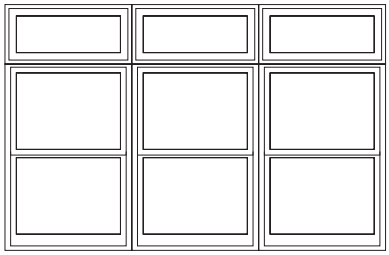
Three-Wide Unequal



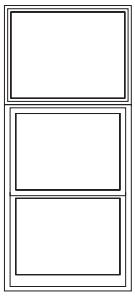
Transom over Single



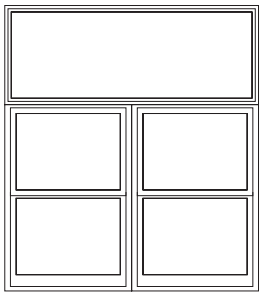
Two-Wide Transoms over Two-Wide



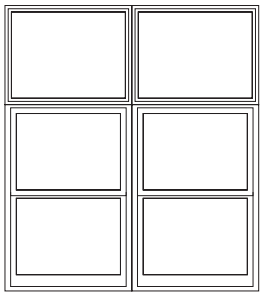
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



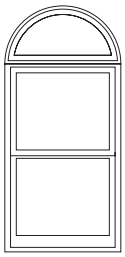
Two Wide Clad Frame over Two-Wide

Combination Assemblies - Arch Top Units

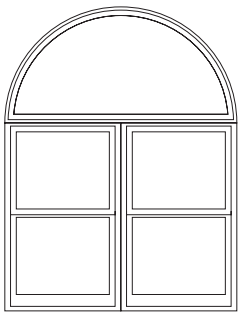
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mulled together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements, below are some examples. See the Combinations Recommendations document for typical mullions, requirements and limitations.

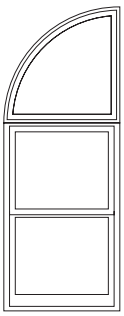
Contact your local Pella sales representative for more information.



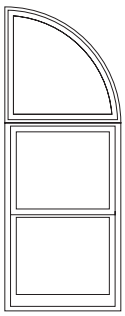
Half Circle over Single



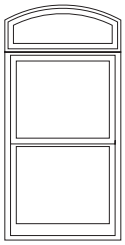
Half Circle over Two-Wide



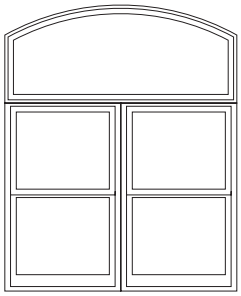
Left Quarter Circle over Single



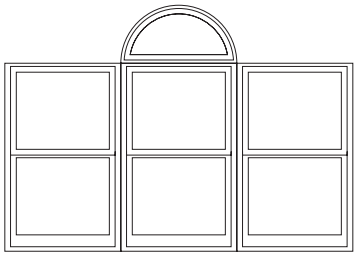
Right Quarter Circle over Single



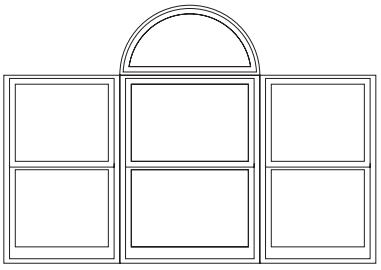
Arch Head over Single



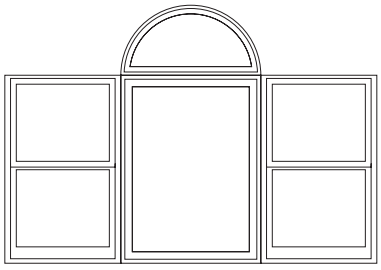
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers

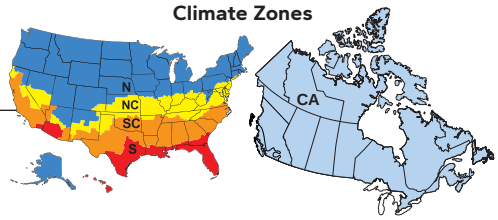
Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
Vent Dual-Pane Glazing - Aluminum-Clad Exterior															
11/16"	Clear IG	PEL-N-232-01105-00001	2.5	2.5	air	0.46	0.60	0.62	44						
	with grilles-between-the-glass	PEL-N-232-01106-00001				0.46	0.53	0.55	44						
	with integral grilles	PEL-N-232-01107-00001				0.46	0.53	0.55	44						
11/16"	Clear IG	PEL-N-232-01109-00001	3	3	air	0.46	0.58	0.61	44						
	with grilles-between-the-glass	PEL-N-232-01110-00001				0.46	0.52	0.55	44						
	with integral grilles	PEL-N-232-01111-00001				0.46	0.52	0.55	44						
11/16"	Advanced Low-E IG	PEL-N-232-01141-00001	2.5	2.5	argon	0.29	0.28	0.53	60						
	with grilles-between-the-glass	PEL-N-232-01142-00001				0.29	0.25	0.47	60						
	with integral grilles	PEL-N-232-01143-00001				0.29	0.25	0.47	60						
11/16"	Advanced Low-E IG	PEL-N-232-01145-00001	3	3	argon	0.29	0.28	0.52	59						
	with grilles-between-the-glass	PEL-N-232-01146-00001				0.29	0.25	0.46	59						
	with integral grilles	PEL-N-232-01147-00001				0.29	0.25	0.46	59						
11/16"	SunDefense™ Low-E IG	PEL-N-232-01189-00001	2.5	2.5	argon	0.28	0.21	0.49	60			SC	S		
	with grilles-between-the-glass	PEL-N-232-01190-00001				0.28	0.19	0.43	60			SC	S		
	with integral grilles	PEL-N-232-01191-00001				0.29	0.19	0.43	60				S		
11/16"	SunDefense™ Low-E IG	PEL-N-232-01193-00001	3	3	argon	0.28	0.21	0.48	59			SC	S		
	with grilles-between-the-glass	PEL-N-232-01194-00001				0.28	0.19	0.43	59			SC	S		
	with integral grilles	PEL-N-232-01195-00001				0.29	0.19	0.43	59				S		
11/16"	SunDefense+ Low-E IG	PEL-N-232-01813-00001	2.5	2.5	argon	0.25	0.20	0.48	49		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-01814-00001				0.25	0.18	0.42	49		NC	SC	S		
	with integral grilles	PEL-N-232-01815-00001				0.25	0.18	0.42	49		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-232-01821-00001	3	3	argon	0.25	0.20	0.47	48		NC	SC	S		
	with grilles-between-the-glass	PEL-N-232-01822-00001				0.25	0.18	0.42	48		NC	SC	S		
	with integral grilles	PEL-N-232-01823-00001				0.26	0.18	0.42	48			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01165-00001	2.5	2.5	argon	0.25	0.28	0.52	48		NC				
	with grilles-between-the-glass	PEL-N-232-01166-00001				0.25	0.25	0.46	48		NC				
	with integral grilles	PEL-N-232-01167-00001				0.26	0.25	0.46	48						
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01169-00001	3	3	argon	0.25	0.27	0.51	47		NC				
	with grilles-between-the-glass	PEL-N-232-01170-00001				0.25	0.25	0.45	47		NC				
	with integral grilles	PEL-N-232-01171-00001				0.26	0.25	0.45	47						
11/16"	NaturalSun Low-E IG	PEL-N-232-01117-00001	2.5	2.5	argon	0.30	0.52	0.60	59						
	with grilles-between-the-glass	PEL-N-232-01118-00001				0.30	0.47	0.53	59						
	with integral grilles	PEL-N-232-01119-00001				0.30	0.47	0.53	59						
11/16"	NaturalSun Low-E IG	PEL-N-232-01121-00001	3	3	argon	0.30	0.52	0.59	58						
	with grilles-between-the-glass	PEL-N-232-01122-00001				0.30	0.46	0.53	58						
	with integral grilles	PEL-N-232-01123-00001				0.30	0.46	0.53	58						
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01781-00001	2.5	2.5	argon	0.26	0.48	0.58	47	N				35	CA
	with grilles-between-the-glass	PEL-N-232-01782-00001				0.26	0.43	0.52	47	N					
	with integral grilles	PEL-N-232-01783-00001				0.27	0.43	0.52	47						
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01789-00001	3	3	argon	0.26	0.47	0.58	46	N				34	CA
	with grilles-between-the-glass	PEL-N-232-01790-00001				0.26	0.42	0.51	46	N					
	with integral grilles	PEL-N-232-01791-00001				0.26	0.42	0.51	46	N					

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.

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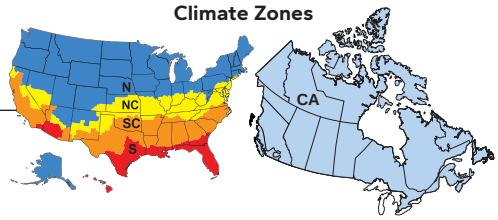
Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-232-01225-00002	5	3	argon	0.29	0.25	0.34	58						
	with grilles-between-the-glass	PEL-N-232-01226-00002				0.31	0.23	0.30	58				S		
	with integral grilles	PEL-N-232-01227-00002				0.30	0.23	0.30	58				S		
11/16"	Gray Advanced Low-E IG	PEL-N-232-01225-00003	5	3	argon	0.29	0.23	0.29	58				S		
	with grilles-between-the-glass	PEL-N-232-01226-00003				0.31	0.21	0.26	58				S		
	with integral grilles	PEL-N-232-01227-00003				0.30	0.21	0.26	58				S		
11/16"	Green Advanced Low-E IG	PEL-N-232-01225-00004	5	3	argon	0.29	0.28	0.46	58						
	with grilles-between-the-glass	PEL-N-232-01226-00004				0.31	0.25	0.41	58						
	with integral grilles	PEL-N-232-01227-00004				0.30	0.25	0.41	58						
Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior															
11/16"	Advanced Low-E IG	PEL-N-232-01153-00001	2.5	2.5	air	0.32	0.28	0.53	56						
	with grilles-between-the-glass	PEL-N-232-01154-00001				0.32	0.25	0.47	56						
	with integral grilles	PEL-N-232-01155-00001				0.33	0.25	0.47	56						
11/16"	Advanced Low-E IG	PEL-N-232-01157-00001	3	3	air	0.32	0.28	0.52	55						
	with grilles-between-the-glass	PEL-N-232-01158-00001				0.32	0.25	0.46	55						
	with integral grilles	PEL-N-232-01159-00001				0.33	0.25	0.46	55						
11/16"	SunDefense™ Low-E IG	PEL-N-232-01201-00001	2.5	2.5	air	0.32	0.21	0.49	56				S		
	with grilles-between-the-glass	PEL-N-232-01202-00001				0.32	0.19	0.43	56				S		
	with integral grilles	PEL-N-232-01203-00001				0.33	0.19	0.43	56				S		
11/16"	SunDefense™ Low-E IG	PEL-N-232-01205-00001	3	3	air	0.32	0.21	0.48	55				S		
	with grilles-between-the-glass	PEL-N-232-01206-00001				0.32	0.19	0.43	55				S		
	with integral grilles	PEL-N-232-01207-00001				0.33	0.19	0.43	55						
11/16"	SunDefense+ Low-E IG	PEL-N-232-01809-00001	2.5	2.5	air	0.27	0.21	0.48	44			SC	S		
	with grilles-between-the-glass	PEL-N-232-01810-00001				0.27	0.19	0.42	44			SC	S		
	with integral grilles	PEL-N-232-01811-00001				0.28	0.19	0.42	44			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-232-01817-00001	3	3	air	0.27	0.21	0.47	44			SC	S		
	with grilles-between-the-glass	PEL-N-232-01818-00001				0.27	0.19	0.42	44			SC	S		
	with integral grilles	PEL-N-232-01819-00001				0.28	0.19	0.42	43			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01177-00001	2.5	2.5	air	0.27	0.28	0.52	44						
	with grilles-between-the-glass	PEL-N-232-01178-00001				0.27	0.25	0.46	44						
	with integral grilles	PEL-N-232-01179-00001				0.28	0.25	0.46	44						
11/16"	AdvancedComfort Low-E IG	PEL-N-232-01181-00001	3	3	air	0.28	0.27	0.51	43						
	with grilles-between-the-glass	PEL-N-232-01182-00001				0.28	0.25	0.45	43						
	with integral grilles	PEL-N-232-01183-00001				0.28	0.25	0.45	43						
11/16"	NaturalSun Low-E IG	PEL-N-232-01129-00001	2.5	2.5	air	0.33	0.52	0.60	56						
	with grilles-between-the-glass	PEL-N-232-01130-00001				0.33	0.47	0.53	56						
	with integral grilles	PEL-N-232-01131-00001				0.34	0.47	0.53	55						
11/16"	NaturalSun Low-E IG	PEL-N-232-01133-00001	3	3	air	0.33	0.51	0.59	55						
	with grilles-between-the-glass	PEL-N-232-01134-00001				0.33	0.46	0.52	55						
	with integral grilles	PEL-N-232-01135-00001				0.34	0.46	0.52	55						
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01777-00001	2.5	2.5	air	0.28	0.48	0.58	43						
	with grilles-between-the-glass	PEL-N-232-01778-00001				0.28	0.43	0.52	43						
	with integral grilles	PEL-N-232-01779-00001				0.29	0.43	0.52	43						
11/16"	NaturalSun+ Low-E IG	PEL-N-232-01785-00001	3	3	air	0.28	0.47	0.58	43						
	with grilles-between-the-glass	PEL-N-232-01786-00001				0.28	0.42	0.51	43						
	with integral grilles	PEL-N-232-01787-00001				0.29	0.42	0.51	42						

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Climate Zones



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Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
Vent Dual-Pane Glazing - Wood Exterior															
11/16"	Clear IG	PEL-N-234-01105-00001	2.5	2.5	air	0.45	0.60	0.62	44						
	with grilles-between-the-glass	PEL-N-234-01106-00001				0.45	0.54	0.56	44						
	with integral grilles	PEL-N-234-01107-00001				0.45	0.54	0.56	44						
11/16"	Clear IG	PEL-N-234-01109-00001	3	3	air	0.45	0.59	0.62	43						
	with grilles-between-the-glass	PEL-N-234-01110-00001				0.45	0.53	0.55	43						
	with integral grilles	PEL-N-234-01111-00001				0.46	0.53	0.55	43						
11/16"	Advanced Low-E IG	PEL-N-234-01141-00001	2.5	2.5	argon	0.28	0.28	0.53	59						
	with grilles-between-the-glass	PEL-N-234-01142-00001				0.28	0.25	0.47	59						
	with integral grilles	PEL-N-234-01143-00001				0.29	0.25	0.47	59						
11/16"	Advanced Low-E IG	PEL-N-234-01145-00001	3	3	argon	0.28	0.28	0.52	58						
	with grilles-between-the-glass	PEL-N-234-01146-00001				0.28	0.25	0.47	58						
	with integral grilles	PEL-N-234-01147-00001				0.29	0.25	0.47	58						
11/16"	SunDefense™ Low-E IG	PEL-N-234-01189-00001	2.5	2.5	argon	0.28	0.21	0.49	60			SC	S		
	with grilles-between-the-glass	PEL-N-234-01190-00001				0.28	0.19	0.44	60			SC	S		
	with integral grilles	PEL-N-234-01191-00001				0.28	0.19	0.44	60			SC	S		
11/16"	SunDefense™ Low-E IG	PEL-N-234-01193-00001	3	3	argon	0.28	0.21	0.49	59			SC	S		
	with grilles-between-the-glass	PEL-N-234-01194-00001				0.28	0.19	0.43	59			SC	S		
	with integral grilles	PEL-N-234-01195-00001				0.28	0.19	0.43	59			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-234-01813-00001	2.5	2.5	argon	0.24	0.21	0.48	49		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-01814-00001				0.24	0.19	0.43	49		NC	SC	S		
	with integral grilles	PEL-N-234-01815-00001				0.25	0.19	0.43	49		NC	SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-234-01821-00001	3	3	argon	0.24	0.21	0.47	47		NC	SC	S		
	with grilles-between-the-glass	PEL-N-234-01822-00001				0.24	0.19	0.42	47		NC	SC	S		
	with integral grilles	PEL-N-234-01823-00001				0.25	0.19	0.42	47		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01165-00001	2.5	2.5	argon	0.24	0.28	0.52	48		NC				
	with grilles-between-the-glass	PEL-N-234-01166-00001				0.24	0.25	0.46	48		NC				
	with integral grilles	PEL-N-234-01167-00001				0.25	0.25	0.46	48		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01169-00001	3	3	argon	0.24	0.28	0.51	47		NC				
	with grilles-between-the-glass	PEL-N-234-01170-00001				0.24	0.25	0.46	47		NC				
	with integral grilles	PEL-N-234-01171-00001				0.25	0.25	0.46	47		NC				
11/16"	NaturalSun Low-E IG	PEL-N-234-01117-00001	2.5	2.5	argon	0.29	0.53	0.60	59					34	CA
	with grilles-between-the-glass	PEL-N-234-01118-00001				0.29	0.47	0.53	59						
	with integral grilles	PEL-N-234-01119-00001				0.30	0.47	0.53	59						
11/16"	NaturalSun Low-E IG	PEL-N-234-01121-00001	3	3	argon	0.29	0.52	0.59	58						
	with grilles-between-the-glass	PEL-N-234-01122-00001				0.29	0.46	0.53	58						
	with integral grilles	PEL-N-234-01123-00001				0.30	0.46	0.53	58						
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01781-00001	2.5	2.5	argon	0.25	0.48	0.59	47	N				36	CA
	with grilles-between-the-glass	PEL-N-234-01782-00001				0.25	0.43	0.52	47	N					
	with integral grilles	PEL-N-234-01783-00001				0.26	0.43	0.52	47	N					
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01789-00001	3	3	argon	0.25	0.47	0.58	46	N				35	CA
	with grilles-between-the-glass	PEL-N-234-01790-00001				0.25	0.42	0.52	46	N					
	with integral grilles	PEL-N-234-01791-00001				0.26	0.42	0.52	46	N					

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
VLT % = Visible Light Transmission
CR = Condensation Resistance
ER = Canadian Energy Rating

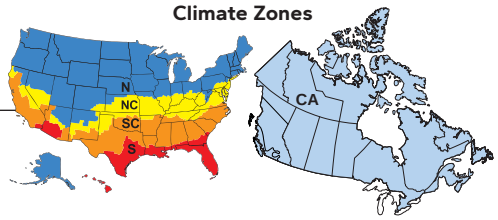
(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.

Non Rectangular Unit thermal values will vary slightly.

Climate Zones

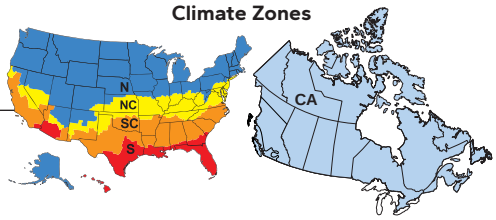


Glazing Performance - Total Unit

Glazing Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values[1]				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S. Zone				Canada[2] ER	Canada[2] Zone
										N	NC	SC	S		CA
Tinted Glazing															
11/16"	Bronze Advanced Low-E IG	PEL-N-234-01225-00002	5	3	argon	0.29	0.25	0.34	57						
	with grilles-between-the-glass	PEL-N-234-01226-00002				0.30	0.23	0.30	57				S		
	with integral grilles	PEL-N-234-01227-00002				0.30	0.23	0.30	57				S		
11/16"	Gray Advanced Low-E IG	PEL-N-234-01225-00003	5	3	argon	0.29	0.23	0.29	57				S		
	with grilles-between-the-glass	PEL-N-234-01226-00003				0.30	0.21	0.26	57				S		
	with integral grilles	PEL-N-234-01227-00003				0.30	0.21	0.26	57				S		
11/16"	Green Advanced Low-E IG	PEL-N-234-01225-00004	5	3	argon	0.29	0.28	0.46	57						
	with grilles-between-the-glass	PEL-N-234-01226-00004				0.30	0.25	0.41	57						
	with integral grilles	PEL-N-234-01227-00004				0.30	0.25	0.41	57						
Vent Dual-Pane High Altitude Glazing - Wood Exterior															
11/16"	Advanced Low-E IG	PEL-N-234-01153-00001	2.5	2.5	air	0.31	0.28	0.53	56						
	with grilles-between-the-glass	PEL-N-234-01154-00001				0.31	0.26	0.47	56						
	with integral grilles	PEL-N-234-01155-00001				0.32	0.26	0.47	56						
11/16"	Advanced Low-E IG	PEL-N-234-01157-00001	3	3	air	0.32	0.28	0.52	55						
	with grilles-between-the-glass	PEL-N-234-01158-00001				0.32	0.26	0.47	55						
	with integral grilles	PEL-N-234-01159-00001				0.33	0.26	0.47	55						
11/16"	SunDefense™ Low-E IG	PEL-N-234-01201-00001	2.5	2.5	air	0.31	0.21	0.49	56				S		
	with grilles-between-the-glass	PEL-N-234-01202-00001				0.31	0.19	0.44	56				S		
	with integral grilles	PEL-N-234-01203-00001				0.32	0.19	0.44	56				S		
11/16"	SunDefense™ Low-E IG	PEL-N-234-01205-00001	3	3	air	0.31	0.21	0.49	55				S		
	with grilles-between-the-glass	PEL-N-234-01206-00001				0.31	0.19	0.43	55				S		
	with integral grilles	PEL-N-234-01207-00001				0.32	0.19	0.43	55				S		
11/16"	SunDefense+ Low-E IG	PEL-N-234-01809-00001	2.5	2.5	air	0.26	0.21	0.48	45			SC	S		
	with grilles-between-the-glass	PEL-N-234-01810-00001				0.26	0.19	0.43	45			SC	S		
	with integral grilles	PEL-N-234-01811-00001				0.27	0.19	0.43	45			SC	S		
11/16"	SunDefense+ Low-E IG	PEL-N-234-01817-00001	3	3	air	0.27	0.21	0.47	43			SC	S		
	with grilles-between-the-glass	PEL-N-234-01818-00001				0.27	0.19	0.42	43			SC	S		
	with integral grilles	PEL-N-234-01819-00001				0.28	0.19	0.42	43			SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01177-00001	2.5	2.5	air	0.27	0.28	0.52	44						
	with grilles-between-the-glass	PEL-N-234-01178-00001				0.27	0.25	0.46	44						
	with integral grilles	PEL-N-234-01179-00001				0.27	0.25	0.46	44						
11/16"	AdvancedComfort Low-E IG	PEL-N-234-01181-00001	3	3	air	0.27	0.28	0.51	43						
	with grilles-between-the-glass	PEL-N-234-01182-00001				0.27	0.25	0.46	43						
	with integral grilles	PEL-N-234-01183-00001				0.28	0.25	0.46	43						
11/16"	NaturalSun Low-E IG	PEL-N-234-01129-00001	2.5	2.5	air	0.32	0.53	0.60	55						
	with grilles-between-the-glass	PEL-N-234-01130-00001				0.32	0.47	0.53	55						
	with integral grilles	PEL-N-234-01131-00001				0.33	0.47	0.53	55						
11/16"	NaturalSun Low-E IG	PEL-N-234-01133-00001	3	3	air	0.33	0.52	0.59	54						
	with grilles-between-the-glass	PEL-N-234-01134-00001				0.33	0.46	0.53	54						
	with integral grilles	PEL-N-234-01135-00001				0.33	0.46	0.53	54						
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01777-00001	2.5	2.5	air	0.27	0.48	0.59	44						
	with grilles-between-the-glass	PEL-N-234-01778-00001				0.27	0.43	0.52	44						
	with integral grilles	PEL-N-234-01779-00001				0.28	0.43	0.52	43						
11/16"	NaturalSun+ Low-E IG	PEL-N-234-01785-00001	3	3	air	0.28	0.47	0.58	42						
	with grilles-between-the-glass	PEL-N-234-01786-00001				0.28	0.42	0.52	42						
	with integral grilles	PEL-N-234-01787-00001				0.28	0.42	0.52	42						

R-Value = 1/U-Factor
SHGC = Solar Heat Gain Coefficient
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CR = Condensation Resistance
ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

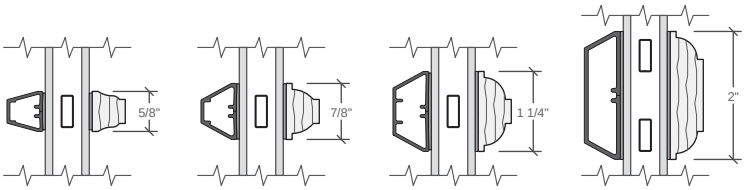
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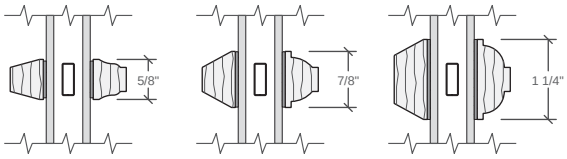
Grille Profiles

Traditional Style Collection - Integral Light Technology ®

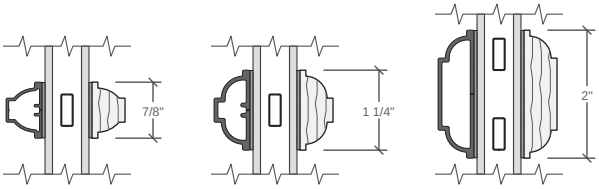
Putty Glaze and Ogee Grilles
Clad Exterior - Wood Interior



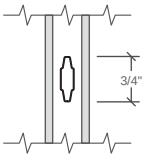
Putty Glaze and Ogee Grilles
Wood Exterior - Wood Interior



Ogee Grilles
Clad Exterior - Wood Interior



Grilles-Between-the-Glass



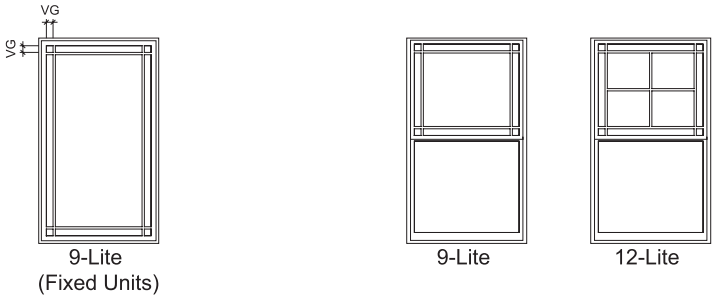
3/4"
Contoured

Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.

Grille Patterns

Integral light technology® Grilles

Prairie Lite Patterns

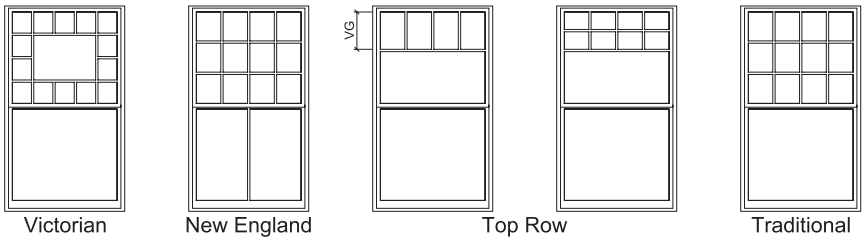


Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

Available in transoms ≥ 1'3" height and width.

Available in all standard and special sizes.

Other Available Patterns

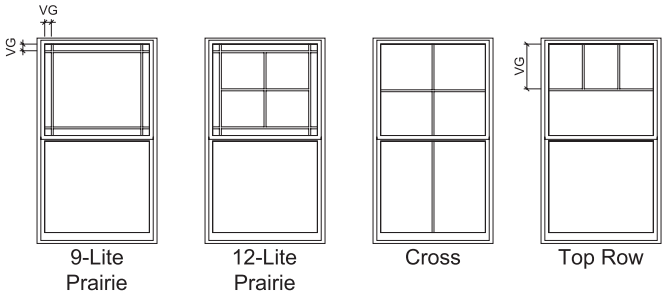


VG = Visible Glass

Lite dimensions noted can vary.

For size and pattern availability contact your local Pella sales representative.

Grilles-Between-the-Glass



Prairie

- Standard corner lite dimension for Prairie patterns = 2-1/2" VG.
- Available in transoms ≥ 1'3" height and width.

Cross

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

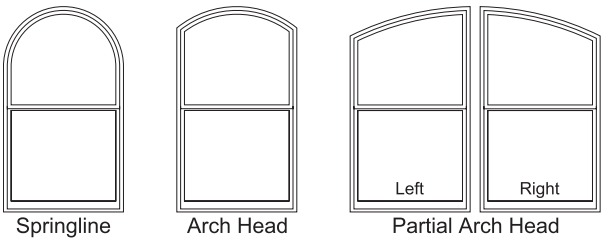
Top Row

- Minimum DH frame height 35".
- Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.

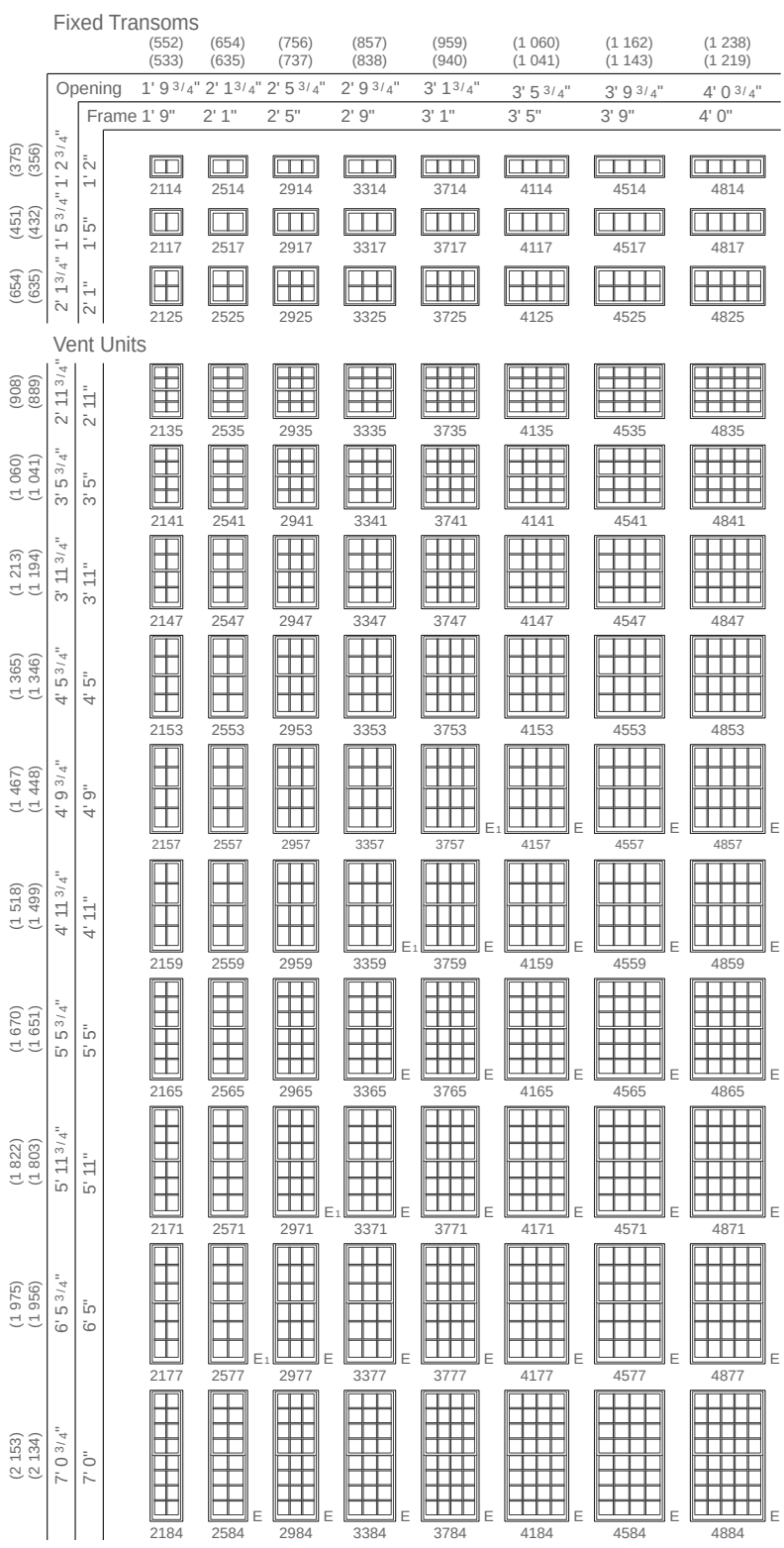
Custom shapes

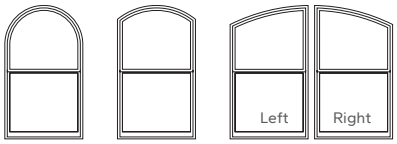
Pella Reserve single-hung windows are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.



Pella® Reserve™ Traditional Hung Window

Size Tables - Equal Sash





Springline | Arch Head | Partial Arch Head

Pella Reserve single-hung windows are available in shapes shown above, and additional custom shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.

Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Egress Notes:

Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

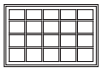
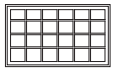
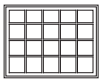
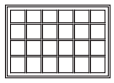
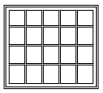
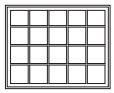
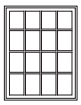
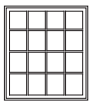
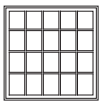
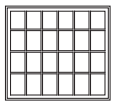
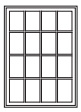
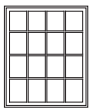
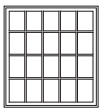
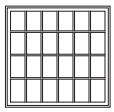
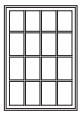
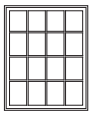
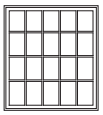
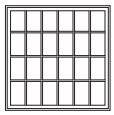
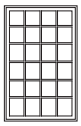
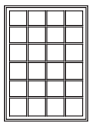
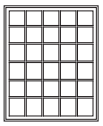
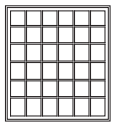
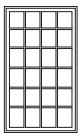
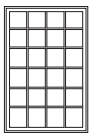
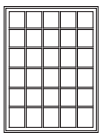
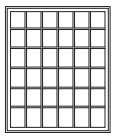
Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Size Tables - Fixed

Fixed Units

		(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
	Opening	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
	Frame	3' 5"	3' 11"	4' 5"	4' 11"
(908) (889)	2' 11 3/4" 2' 11"	 4135	 4735	 5335	 5935
(1 060) (1 041)	3' 5 3/4" 3' 5"	 4141	 4741	 5341	 5941
(1 213) (1 194)	3' 11 3/4" 3' 11"	 4147	 4747	 5347	 5947
(1 365) (1 346)	4' 5 3/4" 4' 5"	 4153	 4753	 5353	 5953
(1 467) (1 448)	4' 9 3/4" 4' 9"	 4157	 4757	 5357	 5957
(1 518) (1 499)	4' 11 3/4" 4' 11"	 4159	 4759	 5359	 5959
(1 670) (1 651)	5' 5 3/4" 5' 5"	 4165	 4765	 5365	 5965
(1 822) (1 803)	5' 11 3/4" 5' 11"	 4171	 4771	 5371	 5971

Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Grille patterns will align with companion hung window with equal sash split.

5-lite high grille patterns may be ordered in 5'5" fixed units to match cottage sash vent units.

Grilles are equally-divided on fixed units with odd-number lites high.

Size Tables - Cottage Sash

VENT UNITS

	(552) (533)	(654) (635)	(756) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
(1 060) (1 041) 3' 5 3/4"	3' 5"	VG2141	VG2541	VG2941	VG3341	VG3741	VG4141	VG4541	VG4841
(1 213) (1 194) 3' 11 3/4"	3' 11"	VG2147	VG2547	VG2947	VG3347	VG3747	VG4147	VG4547	VG4847
(1 365) (1 346) 4' 5 3/4"	4' 5"	VG2153	VG2553	VG2953	VG3353	VG3753	VG4153	VG4553	VG4853
(1 467) (1 448) 4' 9 3/4"	4' 9"	VG2157	VG2557	VG2957	VG3357	VG3757	VG4157	VG4557	VG4857
(1 518) (1 499) 4' 11 3/4"	4' 11"	VG2159	VG2559	VG2959	VG3359	VG3759	VG4159	VG4559	VG4859
(1 670) (1 651) 5' 5 3/4"	5' 5"	VG2165	VG2565	VG2965	VG3365	VG3765	VG4165	VG4565	VG4865
(1 822) (1 803) 5' 11 3/4"	5' 11"	VG2171	VG2571	VG2971	VG3371 E1	VG3771 E	VG4171 E	VG4571 E	VG4871 E
(1 822) (1 803) 5' 11 3/4"	6' 5"	VG2177	VG2577	VG297	VG3377 E1	VG3777 E	VG4177 E	VG457 E	VG4877 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

Frame	Rough		Masonry	
Brickmould	Width	Height	Width	Height
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Cottage units have unequal sash split. Sash glass ratio is 40% upper sash to 60% Lower sash.

Vent variable units have unequal sash split. Sash glass ratio is determined by checkrail heights. See unit sections for dimension requirements.

Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Equal Sash Sizes

Transoms

		(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
	Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
	Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(375) (356)	1' 2 3/4"	1' 2"						
		23.5 x 14	27.5 x 14	29.5 x 14	31.5 x 14	35.5 x 14	39.5 x 14	41.5 x 14
(451) (432)	1' 5 3/4"	1' 5"						
		23.5 x 17	27.5 x 17	29.5 x 17	31.5 x 17	35.5 x 17	39.5 x 17	41.5 x 17
(654) (635)	2' 1 3/4"	2' 1"						
		23.5 x 25	27.5 x 25	29.5 x 25	31.5 x 25	35.5 x 25	39.5 x 25	41.5 x 25

Vent Units

(921) (902)	3' 0 1/4"	2' 11 1/2"	23.5 x 35.5	27.5 x 35.5	29.5 x 35.5	31.5 x 35.5	35.5 x 35.5	39.5 x 35.5	41.5 x 35.5
(972) (953)	3' 2 1/4"	3' 1 1/2"	23.5 x 37.5	27.5 x 37.5	29.5 x 37.5	31.5 x 37.5	35.5 x 37.5	39.5 x 37.5	41.5 x 37.5
(1 073) (1 054)	3' 6 1/4"	3' 5 1/2"	23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
(1 175) (1 156)	3' 10 1/4"	3' 9 1/2"	23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
(1 226) (1 206)	4' 0 1/4"	3' 11 1/2"	23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
(1 327) (1 308)	4' 4 1/4"	4' 3 1/2"	23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
(1 378) (1 359)	4' 6 1/4"	4' 5 1/2"	23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
(1 473) (1 461)	4' 10 1/4"	4' 9 1/2"	23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5 E1	39.5 x 57.5 E	41.5 x 57.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Size Tables - Replacement Sizes

Vent Units

		(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
	Opening	2' 0 1/4"	2' 4 1/4"	2' 6"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
	Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 530) (1 511)	5' 0 1/4" × 4' 11 1/2"	23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5 E1	39.5 x 59.5 E	41.5 x 59.5 E
(1 581) (1 562)	5' 2 1/4" × 5' 1 1/2"	23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5 E1	35.5 x 61.5 E	39.5 x 61.5 E	41.5 x 61.5 E
(1 683) (1 664)	5' 6 1/4" × 5' 5 1/2"	23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5 E1	35.5 x 65.5 E	39.5 x 65.5 E	41.5 x 65.5 E
(1 835) (1 816)	6' 0 1/4" × 5' 11 1/2"	23.5 x 71.5	27.5 x 71.5 E1	29.5 x 71.5 E1	31.5 x 71.5 E	35.5 x 71.5 E	39.5 x 71.5 E	41.5 x 71.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Size Tables - Replacement Cottage Sash Sizes

Cottage Vent Units

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 073) (1 054) 3' 6 1/4" / 3' 5 1/2"	23.5 x 41.5	27.5 x 41.5	29.5 x 41.5	31.5 x 41.5	35.5 x 41.5	39.5 x 41.5	41.5 x 41.5
(1 175) (1 156) 3' 10 1/4" / 3' 9 1/2"	23.5 x 45.5	27.5 x 45.5	29.5 x 45.5	31.5 x 45.5	35.5 x 45.5	39.5 x 45.5	41.5 x 45.5
(1 226) (1 206) 4' 0 1/4" / 3' 11 1/2"	23.5 x 47.5	27.5 x 47.5	29.5 x 47.5	31.5 x 47.5	35.5 x 47.5	39.5 x 47.5	41.5 x 47.5
(1 327) (1 308) 4' 4 1/4" / 4' 3 1/2"	23.5 x 51.5	27.5 x 51.5	29.5 x 51.5	31.5 x 51.5	35.5 x 51.5	39.5 x 51.5	41.5 x 51.5
(1 378) (1 359) 4' 6 1/4" / 4' 5 1/2"	23.5 x 53.5	27.5 x 53.5	29.5 x 53.5	31.5 x 53.5	35.5 x 53.5	39.5 x 53.5	41.5 x 53.5
(1 473) (1 461) 4' 10 1/4" / 4' 9 1/2"	23.5 x 57.5	27.5 x 57.5	29.5 x 57.5	31.5 x 57.5	35.5 x 57.5	39.5 x 57.5	41.5 x 57.5
(1 530) (1 511) 5' 0 1/4" / 4' 11 1/2"	23.5 x 59.5	27.5 x 59.5	29.5 x 59.5	31.5 x 59.5	35.5 x 59.5	39.5 x 59.5	41.5 x 59.5
(1 581) (1 561.5) 5' 2 1/4" / 5' 1 1/2"	23.5 x 61.5	27.5 x 61.5	29.5 x 61.5	31.5 x 61.5	35.5 x 61.5	39.5 x 61.5	41.5 x 61.5
(1 683) (1 664) 5' 6 1/4" / 5' 5 1/2"	23.5 x 65.5	27.5 x 65.5	29.5 x 65.5	31.5 x 65.5	35.5 x 65.5	39.5 x 65.5	41.5 x 65.5
(1 835) (1 816) 6' 0 1/4" / 5' 11 1/2"	23.5 x 71.5	27.5 x 71.5	29.5 x 71.5	31.5 x 71.5	35.5 x 71.5 E1	39.5 x 71.5 E	41.5 x 71.5 E

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Size Tables - Replacement Fixed Sizes

Fixed Units

Opening		3' 5 3/4" (1 060) (1 041)	3' 11 3/4" (1 213) (1 194)	4' 5 3/4" (1 365) (1 346)	4' 11 3/4" (1 518) (1 499)
Frame		3' 5"	3' 11"	4' 5"	4' 11"
3' 0 1/4" (921) (902)	2' 11 1/2"	41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5
3' 2 1/4" (972) (953)	3' 1 1/2"	41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5
3' 6 1/4" (1 073) (1 054)	3' 5 1/2"	41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5
3' 10 1/4" (1 175) (1 156)	3' 9 1/2"	41 X 45.5	47 X 45.5	53 X 45.5	59 X 45.5
4' 0 1/4" (1 226) (1 206)	3' 11 1/2"	41 X 47.5	47 X 47.5	53 X 47.5	59 X 47.5
4' 4 1/4" (1 327) (1 308)	4' 3 1/2"	41 x 51.5	47 x 51.5	53 x 51.5	59 x 51.5
4' 6 1/4" (1 378) (1 359)	4' 5 1/2"	41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5
4' 10 1/4" (1 473) (1 461)	4' 9 1/2"	41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5

		3' 5 3/4" (1 060) (1 041)	3' 11 3/4" (1 213) (1 194)	4' 5 3/4" (1 365) (1 346)	4' 11 3/4" (1 518) (1 499)
		3' 5"	3' 11"	4' 5"	4' 11"
5' 0 1/4" (1 530) (1 511)	4' 11 1/2"	41 x 59.5	47 x 59.5	53 x 59.5	59 x 59.5
5' 2 1/4" (1 581) (1 562)	5' 1 1/2"	41 x 61.5	47 x 61.5	53 x 61.5	59 x 61.5
5' 6 1/4" (1 683) (1 664)	5' 5 1/2"	41 x 65.5	47 x 65.5	53 x 65.5	59 x 65.5
6' 0 1/4" (1 835) (1 816)	5' 11 1/2"	41 x 71.5	47 x 71.5	53 x 71.5	59 x 71.5

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Special Size Frame Dimensions*

Sash configuration	Vent-Equal	Cottage	Fixed
Sash Glass Ratio Top % : Bottom %	50 : 50	40 : 60	NA
Shortest Unit Frame Size	24-3/8" (619)	40-1/4" (1 022)	17" (432)
Tallest Unit Frame Size	96" (2 438)	81" (2 057)	71" (1 803)
Unit Frame Width Range	14" to 48" (356 to 1 219)	14" to 48" (356 to 1 219)	17" to 59" (432 to 1 499)

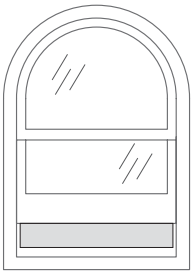
Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

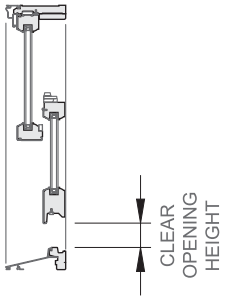
Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

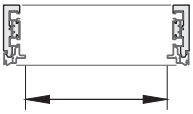
Frame	Rough		Masonry	
Brickmould	**Width**	**Height**	**Width**	**Height**
STD	+ 3/4"	+1-7/8"	+ 3-1/8"	+ 3-1/8"
3-1/2"	+ 3/4"	+1-7/8"	+ 6-3/8"	+ 4-3/4"

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.



Shaded portion shows vent area.

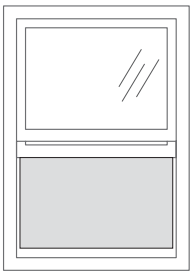




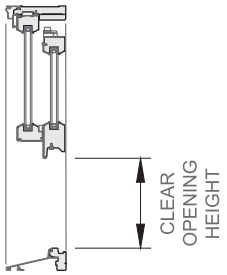
CLEAR OPENING WIDTH

Equal Sash Rectangular Only

	Vent Units	Fixed and Transom Units
Visible Glass	Width = Frame - 5.647"	Width = Frame - 5.75"
	Height = (Frame - 8.681") ÷ 2	Height = Frame - 5.75"
Actual Glass	Width = Frame - 4.375"	Width = Frame - 4.375"
	Height = (Frame - 5.983") ÷ 2	Height = Frame - 4.375"
Clear Opening*	COW = Frame Width - 3.4375"	—
	COH = (Frame Height ÷ 2) - 4.4375"	—
Vent Area Ft²	(COW x COH) ÷ 144	—



Shaded portion shows vent area.



Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

* Some units with custom glazing may have limited travel. Integrated Rolscreen® is only available on sizes greater than or equal to 34" tall and 21" wide and less than or equal to 84" tall and 48" wide.

See your local Pella sales representative for specific size information.

Vent Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
2135		17-5/16	13-1/16	1.6	2.8	2.5	3	CW50	CW45
2141		17-5/16	16-1/16	1.9	3.4	2.5	3	CW50	CW45
2147		17-5/16	19-1/16	2.3	4.1	2.5	3	CW50	CW45
2153		17-5/16	22-1/16	2.7	4.7	2.5	3	CW50	CW45
2157		17-5/16	24-1/16	2.9	5.2	2.5	3	CW50	CW45
2159		17-5/16	25-1/16	3.0	5.4	2.5	3	CW50	CW45
2165		17-5/16	28-1/16	3.4	6.0	2.5	3	CW50	CW45
2171		17-5/16	31-1/16	3.7	6.6	2.5	3	CW50	CW45
2177		17-5/16	34-1/16	4.1	7.3	2.5	3	CW50	CW45
2184		17-5/16	37-9/16	4.5	8.0	2.5	3	CW40	CW40
2535		21-5/16	13-1/16	1.9	3.5	2.5	3	CW50	CW45
2541		21-5/16	16-1/16	2.4	4.3	2.5	3	CW50	CW45
2547		21-5/16	19-1/16	2.8	5.1	2.5	3	CW50	CW45
2553		21-5/16	22-1/16	3.3	6.0	2.5	3	CW50	CW45
2557		21-5/16	24-1/16	3.6	6.5	2.5	3	CW50	CW45
2559		21-5/16	25-1/16	3.7	6.8	2.5	3	CW50	CW45
2565		21-5/16	28-1/16	4.2	7.6	2.5	3	CW50	CW45
2571		21-5/16	31-1/16	4.6	8.4	2.5	3	CW50	CW45
2577	E1	21-5/16	34-1/16	5.0	9.2	2.5	3	CW50	CW45
2584	E1	21-5/16	37-9/16	5.6	10.1	2.5	3	CW40	CW40
2935		25-5/16	13-1/16	2.3	4.3	2.5	3	CW50	CW45
2941		25-5/16	16-1/16	2.8	5.2	2.5	3	CW50	CW45
2947		25-5/16	19-1/16	3.4	6.2	2.5	3	CW50	CW45
2953		25-5/16	22-1/16	3.9	7.2	2.5	3	CW50	CW45
2957		25-5/16	24-1/16	4.2	7.8	2.5	3	CW50	CW45
2959		25-5/16	25-1/16	4.4	8.2	2.5	3	CW50	CW45
2965		25-5/16	28-1/16	4.9	9.1	2.5	3	CW50	CW45
2971	E1	25-5/16	31-1/16	5.5	10.1	2.5	3	CW50	CW45
2977	E	25-5/16	34-1/16	6.0	11.1	2.5	3	CW50	CW45
2984	E	25-5/16	37-9/16	6.6	12.2	2.5	3	CW40	CW40
3335		29-5/16	13-1/16	2.7	5.0	2.5	3	CW50	CW45
3341		29-5/16	16-1/16	3.3	6.1	2.5	3	CW50	CW45
3347		29-5/16	19-1/16	3.9	7.3	2.5	3	CW50	CW45
3353		29-5/16	22-1/16	4.5	8.4	2.5	3	CW50	CW45
3357		29-5/16	24-1/16	4.9	9.2	2.5	3	CW50	CW45
3359	E1	29-5/16	25-1/16	5.1	9.6	2.5	3	CW50	CW45
3365	E	29-5/16	28-1/16	5.7	10.7	2.5	3	CW50	CW45
3371	E	29-5/16	31-1/16	6.3	11.8	2.5	3	CW50	CW45
3377	E	29-5/16	34-1/16	6.9	13.0	2.5	3	CW50	CW45
3384	E	29-5/16	37-9/16	7.7	14.3	2.5	3	CW40	CW40

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum design pressure when glazed with appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Design Data

Vent Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
3735		33-5/16	13-1/16	3.0	5.7	2.5	3	CW50	CW45
3741		33-5/16	16-1/16	3.7	7.0	2.5	3	CW50	CW45
3747		33-5/16	19-1/16	4.4	8.3	2.5	3	CW50	CW45
3753		33-5/16	22-1/16	5.1	9.6	2.5	3	CW50	CW45
3757	E1	33-5/16	24-1/16	5.6	10.5	2.5	3	CW50	CW45
3759	E	33-5/16	25-1/16	5.8	11.0	2.5	3	CW50	CW45
3765	E	33-5/16	28-1/16	6.5	12.3	2.5	3	CW50	CW45
3771	E	33-5/16	31-1/16	7.2	13.6	2.5	3	CW50	CW45
3777	E	33-5/16	34-1/16	7.9	14.9	2.5	3	CW50	CW45
3784	E	33-5/16	37-9/16	8.7	16.4	2.5	3	CW40	CW40
4135		37-5/16	13-1/16	3.4	6.5	2.5	3	CW50	CW45
4141		37-5/16	16-1/16	4.2	7.9	2.5	3	CW50	CW45
4147		37-5/16	19-1/16	4.9	9.4	2.5	3	CW50	CW45
4153		37-5/16	22-1/16	5.7	10.9	2.5	3	CW50	CW45
4157	E	37-5/16	24-1/16	6.2	11.9	2.5	3	CW50	CW45
4159	E	37-5/16	25-1/16	6.5	12.4	2.5	3	CW50	CW45
4165	E	37-5/16	28-1/16	7.3	13.8	2.5	3	CW50	CW45
4171	E	37-5/16	31-1/16	8.1	15.3	2.5	3	CW50	CW45
4177	E	37-5/16	34-1/16	8.8	16.8	2.5	3	CW45	CW45
4184	E	37-5/16	37-9/16	9.7	18.5	2.5	3	CW40	CW40
4535		41-5/16	13-1/16	3.7	7.2	2.5	3	CW50	CW45
4541		41-5/16	16-1/16	4.6	8.8	2.5	3	CW50	CW45
4547		41-5/16	19-1/16	5.5	10.5	2.5	3	CW50	CW45
4553		41-5/16	22-1/16	6.3	12.1	2.5	3	CW50	CW45
4557	E	41-5/16	24-1/16	6.9	13.2	2.5	3	CW50	CW45
4559	E	41-5/16	25-1/16	7.2	13.7	2.5	3	CW50	CW45
4565	E	41-5/16	28-1/16	8.1	15.4	2.5	3	CW50	CW45
4571	E	41-5/16	31-1/16	8.9	17.0	2.5	3	CW45	CW45
4577	E	41-5/16	34-1/16	9.8	18.7	2.5	3	CW45	CW45
4584	E	41-5/16	37-9/16	10.8	20.6	3	3	CW40	CW40
4835		44-5/16	13-1/16	4.0	7.7	2.5	3	CW50	CW45
4841		44-5/16	16-1/16	4.9	9.5	2.5	3	CW50	CW45
4847		44-5/16	19-1/16	5.9	11.3	2.5	3	CW50	CW45
4853		44-5/16	22-1/16	6.8	13.0	2.5	3	CW50	CW45
4857	E	44-5/16	24-1/16	7.4	14.2	2.5	3	CW50	CW45
4859	E	44-5/16	25-1/16	7.7	14.8	2.5	3	CW50	CW45
4865	E	44-5/16	28-1/16	8.6	16.6	2.5	3	CW45	CW45
4871	E	44-5/16	31-1/16	9.6	18.3	2.5	3	CW45	CW45
4877	E	44-5/16	34-1/16	10.5	20.1	3	3	CW45	CW45
4884	E	44-5/16	37-9/16	11.6	22.2	3	3	CW40	CW40

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Design Data

Fixed

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade (1)
		Annealed	Tempered	
4135	7.2	2.5	3	CW50
4141	8.6	2.5	3	CW50
4147	10.1	3	3	CW50
4153	11.6	3	3	CW50
4157	12.5	3	3	CW50
4165	14.5	3	3	CW50
4171	16.0	3	3	CW45/CW50
4735	8.4	2.5	3	CW50
4741	10.1	3	3	CW50
4747	11.8	3	3	CW50
4753	13.5	3	3	CW50
4757	14.7	3	3	CW50
4759	15.3	3	3	CW50
4765	17.0	3	3	CW45/CW50
4771	18.7	4	4	CW50
5335	9.6	2.5	3	CW45/CW50
5341	11.6	3	3	CW50
5347	13.5	3	3	CW50
5353	15.5	3	4	CW45/CW50
5357	16.8	3	4	CW45/CW50
5359	17.5	3	4	CW40/CW50
5365	19.4	4	4	CW50
5371	21.4	4	4	CW50
5935	10.8	3	3	CW50
5941	13.0	3	3	CW50
5953	17.5	3	4	CW40/CW50
5957	19.0	4	4	CW50
5959	19.7	4	4	CW50
5965	21.9	4	4	CW50
5971	24.1	4	4	CW45/CW50

Transoms

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade (1)
		Annealed	Tempered	
2114	0.9	2.5	3	CW50
2514	1.1	2.5	3	CW50
2914	1.3	2.5	3	CW50
3314	1.6	2.5	3	CW50
3714	1.8	2.5	3	CW50
4114	2.0	2.5	3	CW50
4514	2.2	2.5	3	CW50
4814	2.4	2.5	3	CW50
2117	1.2	2.5	3	CW50
2517	1.5	2.5	3	CW50
2917	1.8	2.5	3	CW50
3317	2.1	2.5	3	CW50
3717	2.4	2.5	3	CW50
4117	2.8	2.5	3	CW50
4517	3.1	2.5	3	CW50
4817	3.3	2.5	3	CW50
2125	2.0	2.5	3	CW50
2525	2.6	2.5	3	CW50
2925	3.1	2.5	3	CW50
3325	3.6	2.5	3	CW50
3725	4.2	2.5	3	CW50
4125	4.7	2.5	3	CW50
4525	5.2	2.5	3	CW50
4825	5.6	2.5	3	CW50

(1) Maximum design pressure when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[1]	
		Width	Height			Annealed	Tempered	Clad	Wood
VG2141		17-5/16	12-11/16	1.5	3.4	2.5	3	CW50	CW45
VG2147		17-5/16	15-1/16	1.8	4.1	2.5	3	CW50	CW45
VG2153		17-5/16	17-7/16	2.1	4.7	2.5	3	CW50	CW45
VG2157		17-5/16	19-1/16	2.3	5.2	2.5	3	CW50	CW45
VG2159		17-5/16	19-7/8	2.4	5.4	2.5	3	CW50	CW45
VG2165		17-5/16	22-1/4	2.7	6.0	2.5	3	CW50	CW45
VG2171		17-5/16	24-11/16	3.0	6.6	2.5	3	CW30	CW30
VG2541		21-5/16	12-11/16	1.9	4.3	2.5	3	CW50	CW45
VG2547		21-5/16	15-1/16	2.2	5.1	2.5	3	CW50	CW45
VG2553		21-5/16	17-7/16	2.6	6.0	2.5	3	CW50	CW45
VG2557		21-5/16	19-1/16	2.8	6.5	2.5	3	CW50	CW45
VG2559		21-5/16	19-7/8	2.9	6.8	2.5	3	CW50	CW45
VG2565		21-5/16	22-1/4	3.3	7.6	2.5	3	CW50	CW45
VG2571		21-5/16	24-11/16	3.7	8.4	2.5	3	CW30	CW30
VG2941		25-5/16	12-11/16	2.2	5.2	2.5	3	CW50	CW45
VG2947		25-5/16	15-1/16	2.7	6.2	2.5	3	CW50	CW45
VG2953		25-5/16	17-7/16	3.1	7.2	2.5	3	CW50	CW45
VG2957		25-5/16	19-1/16	3.4	7.8	2.5	3	CW50	CW45
VG2959		25-5/16	19-7/8	3.5	8.2	2.5	3	CW50	CW45
VG2965		25-5/16	22-1/4	3.9	9.1	2.5	3	CW50	CW45
VG2971		25-5/16	24-11/16	4.3	10.1	2.5	3	CW30	CW30
VG3341		29-5/16	12-11/16	2.6	6.1	2.5	3	CW50	CW45
VG3347		29-5/16	15-1/16	3.1	7.3	2.5	3	CW50	CW45
VG3353		29-5/16	17-7/16	3.6	8.4	2.5	3	CW50	CW45
VG3357		29-5/16	19-1/16	3.9	9.2	2.5	3	CW50	CW45
VG3359		29-5/16	19-7/8	4.1	9.6	2.5	3	CW50	CW45
VG3365		29-5/16	22-1/4	4.5	10.7	2.5	3	CW50	CW45
VG3371	E1	29-5/16	24-11/16	5.0	11.8	2.5	3	CW30	CW30

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening (Inches)		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade[1]	
		Width	Height			Annealed	Tempered	Clad	Wood
VG3741		33-5/16	12-11/16	2.9	7.0	2.5	3	CW50	CW45
VG3747		33-5/16	15-1/16	3.5	8.3	2.5	3	CW50	CW45
VG3753		33-5/16	17-7/16	4.0	9.6	2.5	3	CW50	CW45
VG3757		33-5/16	19-1/16	4.4	10.5	2.5	3	CW50	CW45
VG3759		33-5/16	19-7/8	4.6	11.0	2.5	3	CW50	CW45
VG3765		33-5/16	22-1/4	5.2	12.3	2.5	3	CW50	CW45
VG3771	E	33-5/16	24-11/16	5.7	13.6	2.5	3	CW30	CW30
VG4141		37-5/16	12-11/16	3.3	7.9	2.5	3	CW50	CW45
VG4147		37-5/16	15-1/16	3.9	9.4	2.5	3	CW50	CW45
VG4153		37-5/16	17-7/16	4.5	10.9	2.5	3	CW50	CW45
VG4157		37-5/16	19-1/16	4.9	11.9	2.5	3	CW50	CW45
VG4159		37-5/16	19-7/8	5.2	12.4	2.5	3	CW50	CW45
VG4165		37-5/16	22-1/4	5.8	13.8	2.5	3	CW45	CW45
VG4171	E	37-5/16	24-11/16	6.4	15.3	2.5	3	CW30	CW30
VG4541		41-5/16	12-11/16	3.6	8.8	2.5	3	CW50	CW45
VG4547		41-5/16	15-1/16	4.3	10.5	2.5	3	CW50	CW45
VG4553		41-5/16	17-7/16	5.0	12.1	2.5	3	CW50	CW45
VG4557		41-5/16	19-1/16	5.5	13.2	2.5	3	CW45	CW45
VG4559		41-5/16	19-7/8	5.7	13.8	2.5	3	CW45	CW45
VG4565		41-5/16	22-1/4	6.4	15.4	2.5	3	CW45	CW45
VG4571	E	41-5/16	24-11/16	7.1	17.0	3	3	CW30	CW30
VG4841		44-5/16	12-11/16	3.9	9.5	2.5	3	CW50	CW45
VG4847		44-5/16	15-1/16	4.6	11.3	2.5	3	CW50	CW45
VG4853		44-5/16	17-7/16	5.4	13.0	2.5	3	CW45	CW45
VG4857		44-5/16	19-1/16	5.9	14.2	2.5	3	CW45	CW45
VG4859		44-5/16	19-7/8	6.1	14.8	2.5	3	CW45	CW45
VG4865		44-5/16	22-1/4	6.9	16.6	3	3	CW45	CW45
VG4871	E	44-5/16	24-11/16	7.6	18.3	3	3	CW30	CW30

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
23.5 x 35.5		19-13/16	13-5/16	1.8	3.3	2.5	3	CW50	CW45
23.5 x 37.5		19-13/16	14-5/16	2.0	3.6	2.5	3	CW50	CW45
23.5 x 41.5		19-13/16	16-5/16	2.2	4.1	2.5	3	CW50	CW45
23.5 x 45.5		19-13/16	18-5/16	2.5	4.6	2.5	3	CW50	CW45
23.5 x 47.5		19-13/16	19-5/16	2.7	4.8	2.5	3	CW50	CW45
23.5 x 51.5		19-13/16	21-5/16	2.9	5.3	2.5	3	CW50	CW45
23.5 x 53.5		19-13/16	22-5/16	3.1	5.6	2.5	3	CW50	CW45
23.5 x 57.5		19-13/16	24-5/16	3.3	6.1	2.5	3	CW50	CW45
23.5 x 59.5		19-13/16	25-5/16	3.5	6.3	2.5	3	CW50	CW45
23.5 x 61.5		19-13/16	26-5/16	3.6	6.5	2.5	3	CW50	CW45
23.5 x 65.5		19-13/16	28-5/16	3.9	7.0	2.5	3	CW50	CW45
23.5 x 71.5		19-13/16	31-5/16	4.3	7.8	2.5	3	CW50	CW45
27.5 x 35.5		23-13/16	13-5/16	2.2	4.1	2.5	3	CW50	CW45
27.5 x 37.5		23-13/16	14-5/16	2.4	4.4	2.5	3	CW50	CW45
27.5 x 41.5		23-13/16	16-5/16	2.7	5.0	2.5	3	CW50	CW45
27.5 x 45.5		23-13/16	18-5/16	3.0	5.6	2.5	3	CW50	CW45
27.5 x 47.5		23-13/16	19-5/16	3.2	5.9	2.5	3	CW50	CW45
27.5 x 51.5		23-13/16	21-5/16	3.5	6.5	2.5	3	CW50	CW45
27.5 x 53.5		23-13/16	22-5/16	3.7	6.8	2.5	3	CW50	CW45
27.5 x 57.5		23-13/16	24-5/16	4.0	7.4	2.5	3	CW50	CW45
27.5 x 59.5		23-13/16	25-5/16	4.2	7.7	2.5	3	CW50	CW45
27.5 x 61.5		23-13/16	26-5/16	4.4	8.0	2.5	3	CW50	CW45
27.5 x 65.5		23-13/16	28-5/16	4.7	8.6	2.5	3	CW50	CW45
27.5 x 71.5	E1	23-13/16	31-5/16	5.2	9.5	2.5	3	CW50	CW45
29.5 x 35.5		25-13/16	13-5/16	2.4	4.4	2.5	3	CW50	CW45
29.5 x 37.5		25-13/16	14-5/16	2.6	4.8	2.5	3	CW50	CW45
29.5 x 41.5		25-13/16	16-5/16	2.9	5.4	2.5	3	CW50	CW45
29.5 x 45.5		25-13/16	18-5/16	3.3	6.1	2.5	3	CW50	CW45
29.5 x 47.5		25-13/16	19-5/16	3.5	6.4	2.5	3	CW50	CW45
29.5 x 51.5		25-13/16	21-5/16	3.8	7.1	2.5	3	CW50	CW45
29.5 x 53.5		25-13/16	22-5/16	4.0	7.4	2.5	3	CW50	CW45
29.5 x 57.5		25-13/16	24-5/16	4.4	8.1	2.5	3	CW50	CW45
29.5 x 59.5		25-13/16	25-5/16	4.5	8.4	2.5	3	CW50	CW45
29.5 x 61.5		25-13/16	26-5/16	4.7	8.7	2.5	3	CW50	CW45
29.5 x 65.5	E1	25-13/16	28-5/16	5.1	9.4	2.5	3	CW50	CW45
29.5 x 71.5	E1	25-13/16	31-5/16	5.6	10.4	2.5	3	CW50	CW45

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Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Design Data - Replacement Sizes

Replacement Equal Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
31.5 x 35.5		27-13/16	13-5/16	2.6	4.8	2.5	3	CW50	CW45
31.5 x 37.5		27-13/16	14-5/16	2.8	5.2	2.5	3	CW50	CW45
31.5 x 41.5		27-13/16	16-5/16	3.2	5.9	2.5	3	CW50	CW45
31.5 x 45.5		27-13/16	18-5/16	3.5	6.6	2.5	3	CW50	CW45
31.5 x 47.5		27-13/16	19-5/16	3.7	7.0	2.5	3	CW50	CW45
31.5 x 51.5		27-13/16	21-5/16	4.1	7.7	2.5	3	CW50	CW45
31.5 x 53.5		27-13/16	22-5/16	4.3	8.0	2.5	3	CW50	CW45
31.5 x 57.5		27-13/16	24-5/16	4.7	8.8	2.5	3	CW50	CW45
31.5 x 59.5		27-13/16	25-5/16	4.9	9.1	2.5	3	CW50	CW45
31.5 x 61.5	E1	27-13/16	26-5/16	5.1	9.5	2.5	3	CW50	CW45
31.5 x 65.5	E1	27-13/16	28-5/16	5.5	10.2	2.5	3	CW50	CW45
31.5 x 71.5	E	27-13/16	31-5/16	6.0	11.3	2.5	3	CW50	CW45
35.5 x 35.5		31-13/16	13-5/16	2.9	5.6	2.5	3	CW50	CW45
35.5 x 37.5		31-13/16	14-5/16	3.2	6.0	2.5	3	CW50	CW45
35.5 x 41.5		31-13/16	16-5/16	3.6	6.8	2.5	3	CW50	CW45
35.5 x 45.5		31-13/16	18-5/16	4.0	7.6	2.5	3	CW50	CW45
35.5 x 47.5		31-13/16	19-5/16	4.3	8.0	2.5	3	CW50	CW45
35.5 x 51.5		31-13/16	21-5/16	4.7	8.9	2.5	3	CW50	CW45
35.5 x 53.5		31-13/16	22-5/16	4.9	9.3	2.5	3	CW50	CW45
35.5 x 57.5	E1	31-13/16	24-5/16	5.4	10.1	2.5	3	CW50	CW45
35.5 x 59.5	E1	31-13/16	25-5/16	5.6	10.5	2.5	3	CW50	CW45
35.5 x 61.5	E	31-13/16	26-5/16	5.8	10.9	2.5	3	CW50	CW45
35.5 x 65.5	E	31-13/16	28-5/16	6.3	11.8	2.5	3	CW50	CW45
35.5 x 71.5	E	31-13/16	31-5/16	6.9	13.0	2.5	3	CW50	CW45
39.5 x 35.5		35-13/16	13-5/16	3.3	6.3	2.5	3	CW50	CW45
39.5 x 37.5		35-13/16	14-5/16	3.6	6.8	2.5	3	CW50	CW45
39.5 x 41.5		35-13/16	16-5/16	4.1	7.7	2.5	3	CW50	CW45
39.5 x 45.5		35-13/16	18-5/16	4.6	8.7	2.5	3	CW50	CW45
39.5 x 47.5		35-13/16	19-5/16	4.8	9.1	2.5	3	CW50	CW45
39.5 x 51.5		35-13/16	21-5/16	5.3	10.1	2.5	3	CW50	CW45
39.5 x 53.5		35-13/16	22-5/16	5.5	10.5	2.5	3	CW50	CW45
39.5 x 57.5	E	35-13/16	24-5/16	6.0	11.5	2.5	3	CW50	CW45
39.5 x 59.5	E	35-13/16	25-5/16	6.3	11.9	2.5	3	CW50	CW45
39.5 x 61.5	E	35-13/16	26-5/16	6.5	12.4	2.5	3	CW50	CW45
39.5 x 65.5	E	35-13/16	28-5/16	7.0	13.4	2.5	3	CW50	CW45
39.5 x 71.5	E	35-13/16	31-5/16	7.8	14.8	2.5	3	CW45	CW45
41.5 x 35.5		37-13/16	13-5/16	3.5	6.7	2.5	3	CW50	CW45
41.5 x 37.5		37-13/16	14-5/16	3.8	7.2	2.5	3	CW50	CW45
41.5 x 41.5		37-13/16	16-5/16	4.3	8.2	2.5	3	CW50	CW45
41.5 x 45.5		37-13/16	18-5/16	4.8	9.2	2.5	3	CW50	CW45
41.5 x 47.5		37-13/16	19-5/16	5.1	9.7	2.5	3	CW50	CW45
41.5 x 51.5		37-13/16	21-5/16	5.6	10.7	2.5	3	CW50	CW45
41.5 x 53.5		37-13/16	22-5/16	5.9	11.2	2.5	3	CW50	CW45
41.5 x 57.5	E	37-13/16	24-5/16	6.4	12.2	2.5	3	CW50	CW45
41.5 x 59.5	E	37-13/16	25-5/16	6.6	12.7	2.5	3	CW50	CW45
41.5 x 61.5	E	37-13/16	26-5/16	6.9	13.1	2.5	3	CW50	CW45
41.5 x 65.5	E	37-13/16	28-5/16	7.4	14.1	2.5	3	CW45	CW45
41.5 x 71.5	E	37-13/16	31-5/16	8.2	15.6	2.5	3	CW45	CW45

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Design Data - Replacement Sizes

Replacement Fixed

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]
		Annealed	Tempered	
41 x 35.5	7.3	2.5	3	CW50
41 x 37.5	7.8	2.5	3	CW50
41 x 41.5	8.8	2.5	3	CW50
41 x 45.5	9.7	2.5	3	CW45/CW50
41 x 47.5	10.2	3.0	3	CW50
41 x 51.5	11.2	3.0	3	CW50
41 x 53.5	11.7	3.0	3	CW50
41 x 57.5	12.7	3.0	3	CW50
41 x 59.5	13.2	3.0	3	CW50
41 x 61.5	13.6	3.0	3	CW50
41 x 65.5	14.6	3.0	3	CW50
41 x 71.5	16.1	3.0	3	CW45/CW50
47 x 35.5	8.5	2.5	3	CW50
47 x 37.5	9.1	2.5	3	CW50
47 x 41.5	10.2	3.0	3	CW50
47 x 45.5	11.4	3.0	3	CW50
47 x 47.5	12.0	3.0	3	CW50
47 x 51.5	13.1	3.0	3	CW50
47 x 53.5	13.7	3.0	3	CW50
47 x 57.5	14.8	3.0	3	CW50
47 x 59.5	15.4	3.0	3	CW45/CW50
47 x 61.5	16.0	3.0	3	CW45/CW50
47 x 65.5	17.1	3.0	3	CW45/CW50
47 x 71.5	18.8	4.0	4	CW50
53 x 35.5	9.8	2.5	3	CW45/CW50
53 x 37.5	10.4	3.0	3	CW50
53 x 41.5	11.7	3.0	3	CW50
53 x 45.5	13.0	3.0	3	CW50
53 x 47.5	13.7	3.0	3	CW50
53 x 51.5	15.0	3.0	4	CW50
53 x 53.5	15.7	3.0	4	CW45/CW50
53 x 57.5	17.0	3.0	4	CW45/CW50
53 x 59.5	17.6	4.0	4	CW50
53 x 61.5	18.3	4.0	4	CW50
53 x 65.5	19.6	4.0	4	CW50
53 x 71.5	21.6	4.0	4	CW50
59 x 35.5	11.0	3.0	3	CW50
59 x 37.5	11.7	3.0	3	CW50
59 x 41.5	13.2	3.0	3	CW50
59 x 45.5	14.7	3.0	3	CW50
59 x 47.5	15.4	3.0	3	CW45/CW50
59 x 51.5	16.9	3.0	4	CW45/CW50
59 x 53.5	17.7	4.0	4	CW50
59 x 57.5	19.1	4.0	4	CW50
59 x 59.5	19.9	4.0	4	CW50
59 x 61.5	20.6	4.0	4	CW50
59 x 65.5	22.1	4.0	4	CW50
59 x 71.5	24.3	4.0	4	CW45/CW50

Replacement Transoms

Unit	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]
		Annealed	Tempered	
23.5 x 14	1.0	2.5	3	CW50
23.5 x 17	1.4	2.5	3	CW50
23.5 x 25	2.4	2.5	3	CW50
27.5 x 14	1.2	2.5	3	CW50
27.5 x 17	1.7	2.5	3	CW50
27.5 x 25	2.9	2.5	3	CW50
29.5 x 14	1.4	2.5	3	CW50
29.5 x 17	1.9	2.5	3	CW50
29.5 x 25	3.2	2.5	3	CW50
31.5 x 14	1.5	2.5	3	CW50
31.5 x 17	2.0	2.5	3	CW50
31.5 x 25	3.4	2.5	3	CW50
35.5 x 14	1.7	2.5	3	CW50
35.5 x 17	2.3	2.5	3	CW50
35.5 x 25	4.0	2.5	3	CW50
39.5 x 14	1.9	2.5	3	CW50
39.5 x 17	2.6	2.5	3	CW50
39.5 x 25	4.5	2.5	3	CW50
41.5 x 14	2.0	2.5	3	CW50
41.5 x 17	2.8	2.5	3	CW50
41.5 x 25	4.8	2.5	3	CW50

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.

Replacement Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG23.5 x 41.5		19-13/16	12-7/8	1.8	4.1	2.5	3	CW50	CW45
VG23.5 x 45.5		19-13/16	14-1/2	2.0	4.6	2.5	3	CW50	CW45
VG23.5 x 47.5		19-13/16	15-1/4	2.1	4.8	2.5	3	CW50	CW45
VG23.5 x 51.5		19-13/16	16-7/8	2.3	5.3	2.5	3	CW50	CW45
VG23.5 x 53.5		19-13/16	17-11/16	2.4	5.6	2.5	3	CW50	CW45
VG23.5 x 57.5		19-13/16	19-1/4	2.7	6.1	2.5	3	CW50	CW45
VG23.5 x 59.5		19-13/16	19-15/16	2.8	6.3	2.5	3	CW50	CW45
VG23.5 x 61.5		19-13/16	20-7/8	2.9	6.5	2.5	3	CW50	CW45
VG23.5 x 65.5		19-13/16	22-1/2	3.1	7.0	2.5	3	CW40	CW40
VG23.5 x 71.5		19-13/16	24-7/8	3.4	7.8	2.5	3	CW30	CW30
VG27.5 x 41.5		23-13/16	12-7/8	2.1	5.0	2.5	3	CW50	CW45
VG27.5 x 45.5		23-13/16	14-1/2	2.4	5.6	2.5	3	CW50	CW45
VG27.5 x 47.5		23-13/16	15-1/4	2.5	5.9	2.5	3	CW50	CW45
VG27.5 x 51.5		23-13/16	16-7/8	2.8	6.5	2.5	3	CW50	CW45
VG27.5 x 53.5		23-13/16	17-11/16	2.9	6.8	2.5	3	CW50	CW45
VG27.5 x 57.5		23-13/16	19-1/4	3.2	7.4	2.5	3	CW50	CW45
VG27.5 x 59.5		23-13/16	19-15/16	3.3	7.7	2.5	3	CW50	CW45
VG27.5 x 61.5		23-13/16	20-7/8	3.5	8.0	2.5	3	CW50	CW45
VG27.5 x 65.5		23-13/16	22-1/2	3.7	8.6	2.5	3	CW40	CW40
VG27.5 x 71.5		23-13/16	24-7/8	4.1	9.5	2.5	3	CW30	CW30
VG29.5 x 41.5		25-13/16	12-7/8	2.3	5.4	2.5	3	CW50	CW45
VG29.5 x 45.5		25-13/16	14-1/2	2.6	6.1	2.5	3	CW50	CW45
VG29.5 x 47.5		25-13/16	15-1/4	2.7	6.4	2.5	3	CW50	CW45
VG29.5 x 51.5		25-13/16	16-7/8	3.0	7.1	2.5	3	CW50	CW45
VG29.5 x 53.5		25-13/16	17-11/16	3.2	7.4	2.5	3	CW50	CW45
VG29.5 x 57.5		25-13/16	19-1/4	3.5	8.1	2.5	3	CW50	CW45
VG29.5 x 59.5		25-13/16	19-15/16	3.6	8.4	2.5	3	CW50	CW45
VG29.5 x 61.5		25-13/16	20-7/8	3.7	8.7	2.5	3	CW50	CW45
VG29.5 x 65.5		25-13/16	22-1/2	4.0	9.4	2.5	3	CW40	CW40
VG29.5 x 71.5		25-13/16	24-7/8	4.5	10.4	2.5	3	CW30	CW30
VG31.5 x 41.5		27-13/16	12-7/8	2.5	5.9	2.5	3	CW50	CW45
VG31.5 x 45.5		27-13/16	14-1/2	2.8	6.6	2.5	3	CW50	CW45
VG31.5 x 47.5		27-13/16	15-1/4	3.0	7.0	2.5	3	CW50	CW45
VG31.5 x 51.5		27-13/16	16-7/8	3.3	7.7	2.5	3	CW50	CW45
VG31.5 x 53.5		27-13/16	17-11/16	3.4	8.0	2.5	3	CW50	CW45
VG31.5 x 57.5		27-13/16	19-1/4	3.7	8.8	2.5	3	CW50	CW45
VG31.5 x 59.5		27-13/16	19-15/16	3.9	9.1	2.5	3	CW50	CW45
VG31.5 x 61.5		27-13/16	20-7/8	4.0	9.5	2.5	3	CW50	CW45
VG31.5 x 65.5		27-13/16	22-1/2	4.3	10.2	2.5	3	CW40	CW40
VG31.5 x 71.5		27-13/16	24-7/8	4.8	11.3	2.5	3	CW30	CW30

Continued on next page

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m^2), multiply square feet by 0.0929.

Replacement Cottage Sash for Single- and Double-Hung

Unit	Egress	Clear Opening		Vent Area Ft²	Visible Glass Ft²	Standard Glass Thickness (mm)		Performance Class & Grade [1]	
		Width (Inches)	Height (Inches)			Annealed	Tempered	Clad	Wood
VG35.5 x 41.5		31-13/16	12-7/8	2.8	6.8	2.5	3	CW50	CW45
VG35.5 x 45.5		31-13/16	14-1/2	3.2	7.6	2.5	3	CW50	CW45
VG35.5 x 47.5		31-13/16	15-1/4	3.4	8.0	2.5	3	CW50	CW45
VG35.5 x 51.5		31-13/16	16-7/8	3.7	8.9	2.5	3	CW50	CW45
VG35.5 x 53.5		31-13/16	17-11/16	3.9	9.3	2.5	3	CW50	CW45
VG35.5 x 57.5		31-13/16	19-1/4	4.3	10.1	2.5	3	CW50	CW45
VG35.5 x 59.5		31-13/16	19-15/16	4.4	10.5	2.5	3	CW50	CW45
VG35.5 x 61.5		31-13/16	20-7/8	4.6	11.0	2.5	3	CW50	CW45
VG35.5 x 65.5		31-13/16	22-1/2	5.0	11.8	2.5	3	CW40	CW40
VG35.5 x 71.5	E1	31-13/16	24-7/8	5.5	13.0	2.5	3	CW30	CW30
VG39.5 x 41.5		35-13/16	12-7/8	3.2	7.7	2.5	3	CW50	CW45
VG39.5 x 45.5		35-13/16	14-1/2	3.6	8.7	2.5	3	CW50	CW45
VG39.5 x 47.5		35-13/16	15-1/4	3.8	9.1	2.5	3	CW50	CW45
VG39.5 x 51.5		35-13/16	16-7/8	4.2	10.1	2.5	3	CW50	CW45
VG39.5 x 53.5		35-13/16	17-11/16	4.4	10.5	2.5	3	CW50	CW45
VG39.5 x 57.5		35-13/16	19-1/4	4.8	11.5	2.5	3	CW50	CW45
VG39.5 x 59.5		35-13/16	19-15/16	5.0	11.9	2.5	3	CW50	CW45
VG39.5 x 61.5		35-13/16	20-7/8	5.2	12.4	2.5	3	CW45	CW45
VG39.5 x 65.5		35-13/16	22-1/2	5.6	13.4	2.5	3	CW40	CW40
VG39.5 x 71.5	E	35-13/16	24-7/8	6.2	14.8	2.5	3	CW30	CW30
VG41.5 x 41.5		37-13/16	12-7/8	3.4	8.2	2.5	3	CW50	CW45
VG41.5 x 45.5		37-13/16	14-1/2	3.8	9.2	2.5	3	CW50	CW45
VG41.5 x 47.5		37-13/16	15-1/4	4.0	9.7	2.5	3	CW50	CW45
VG41.5 x 51.5		37-13/16	16-7/8	4.4	10.7	2.5	3	CW50	CW45
VG41.5 x 53.5		37-13/16	17-11/16	4.6	11.2	2.5	3	CW50	CW45
VG41.5 x 57.5		37-13/16	19-1/4	5.1	12.2	2.5	3	CW45	CW45
VG41.5 x 59.5		37-13/16	19-15/16	5.3	12.7	2.5	3	CW45	CW45
VG41.5 x 61.5		37-13/16	20-7/8	5.5	13.2	2.5	3	CW45	CW45
VG41.5 x 65.5		37-13/16	22-1/2	5.9	14.1	2.5	3	CW40	CW40
VG41.5 x 71.5	E	37-13/16	24-7/8	6.5	15.6	2.5	3	CW30	CW30

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.

Pella® Reserve™ Traditional Hung Window

Detailed Product Description - Aluminum-Clad Exterior

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] [mahogany] [douglas fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.
- Optional factory-installed Pella Steady Set Installation System.

Sash

- 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] [mahogany] [douglas fir]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Double-Hung: Upper sash has surface-mounted wash locks for easy tilt-in cleaning] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Kerf mounted bristle weatherstrip at sill.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed dual-pane 11/16" dual-seal insulating glass [[annealed] [tempered]], [[clear] [[Advanced] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] [AdvancedComfort] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]] [obscure] [Reflective Bronze].

– or –

- Silicone-glazed dual-pane 13/16" dual-seal [[annealed] [tempered]] non-impact laminated glass [[clear] [[Advanced] [SunDefense] Low-E [with Argon]] [[bronze] [gray] [green] Advanced Low-E [with argon]].

Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
  - Color is [standard] [feature] [custom][1].

– or –

- Aluminum-clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
  - Color is [standard] [feature] [custom][1].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain][1]].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel] [Oil-rubbed Bronze] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
  - Optional factory applied accessory. Exterior finish is [Standard[1]] [Custom[1]].

Grilles

- Integral Light Technology® grilles
  - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany] [douglas fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain][1]].
  - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" ogee profile] that are extruded aluminum.
  - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

– 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] [Cross] [Top Row]
  - Interior color is [White] [Tan[3]] [Brown[3]] [Putty[3]] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color[4] is [standard][1].

Screens

- Integrated Rolscreen® (for rectangular units only)[6]
  - Retractable screen integrated into [lower sash] [both upper and lower sash]. Screen rollers are fixed and concealed within the frame, screen is held to the sash by magnets which release when the bottom sash is tilted for cleaning, and when the upper sash is opened past 18".
  - InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.

– or –

- InView™ screens
  - [Half-Size] [Full-Size[4]] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Full screen spreader bar placed on units > 37" width or > 65" height.
  - Screen frame finish is [standard screen: baked enamel] [premium extruded: baked enamel], color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available in clear or Low-E insulating glass only.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.

(5) Full screens are available on units ≤ 96" height.

(6) Integrated Rolscreen only available on sizes ≥ 34" tall and 21" wide, and ≤ 84" tall and 48" wide.

Pella® Reserve™ Traditional Hung Window

Detailed Product Description - Wood Exterior

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] [mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Vinyl Jamb liner includes wood / clad inserts.
- Optional factory applied jamb extensions available between 4-5/16" (110mm) and 9-3/16" (233mm).

Sash

- 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] [mahogany (standard rectangular windows only)]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Sash exterior profile is putty glaze, interior profile is ogee.
- Corners [mortised and tenoned on rectangular units] [mitered on arch head units], glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- [Double-Hung: Upper sash has surface-mounted wash locks] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill. Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Kerf mounted bristle weatherstrip at sill.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- [Pine: factory primed with one coat acrylic latex] [Mahogany: [factory primed with one coat acrylic latex] [Unfinished, ready for site finishing]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain][1]].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [satin brass] [satin nickel] [oil-rubbed bronze] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
  - Interior grilles are solid [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain][1]].
  - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze profile] that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
  - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer

– 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] [Cross] [Top Row]
  - Interior color is [White] [Tan[3]] [Brown[3]] [Putty[3]] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
  - Exterior color[5] is [standard][1].

Screens

- InView™ Screens
  - [Half-Size] [Full-Size[4]] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form aluminum frame with 3/4" wide rails and stiles] [premium extruded aluminum frame with 1" wide rails and stiles] fitted to outside of window, supplied complete with all necessary hardware.
  - Full screen spreader bar placed on units > 37" width or > 65" height.
  - Insect screen frame finish is baked enamel.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

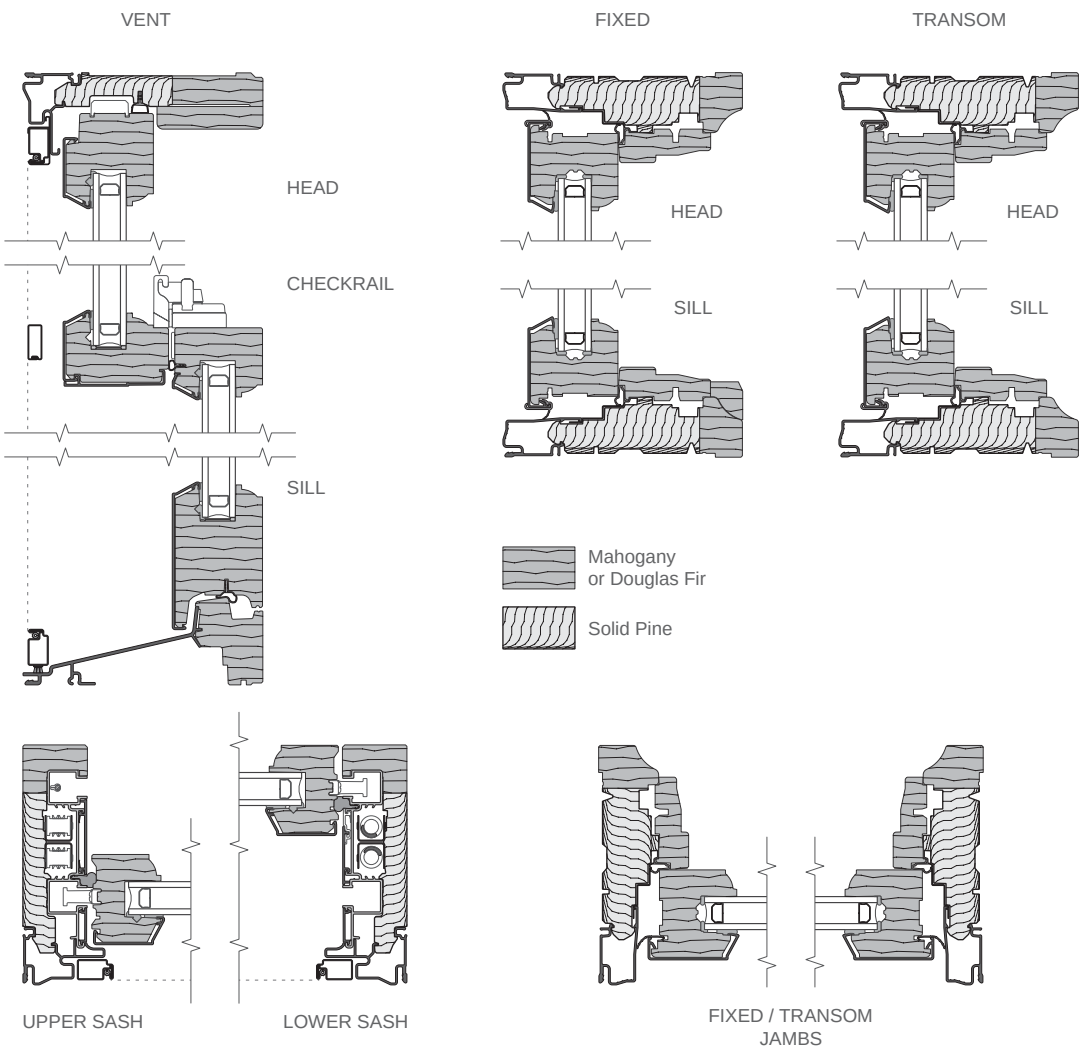
(2) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

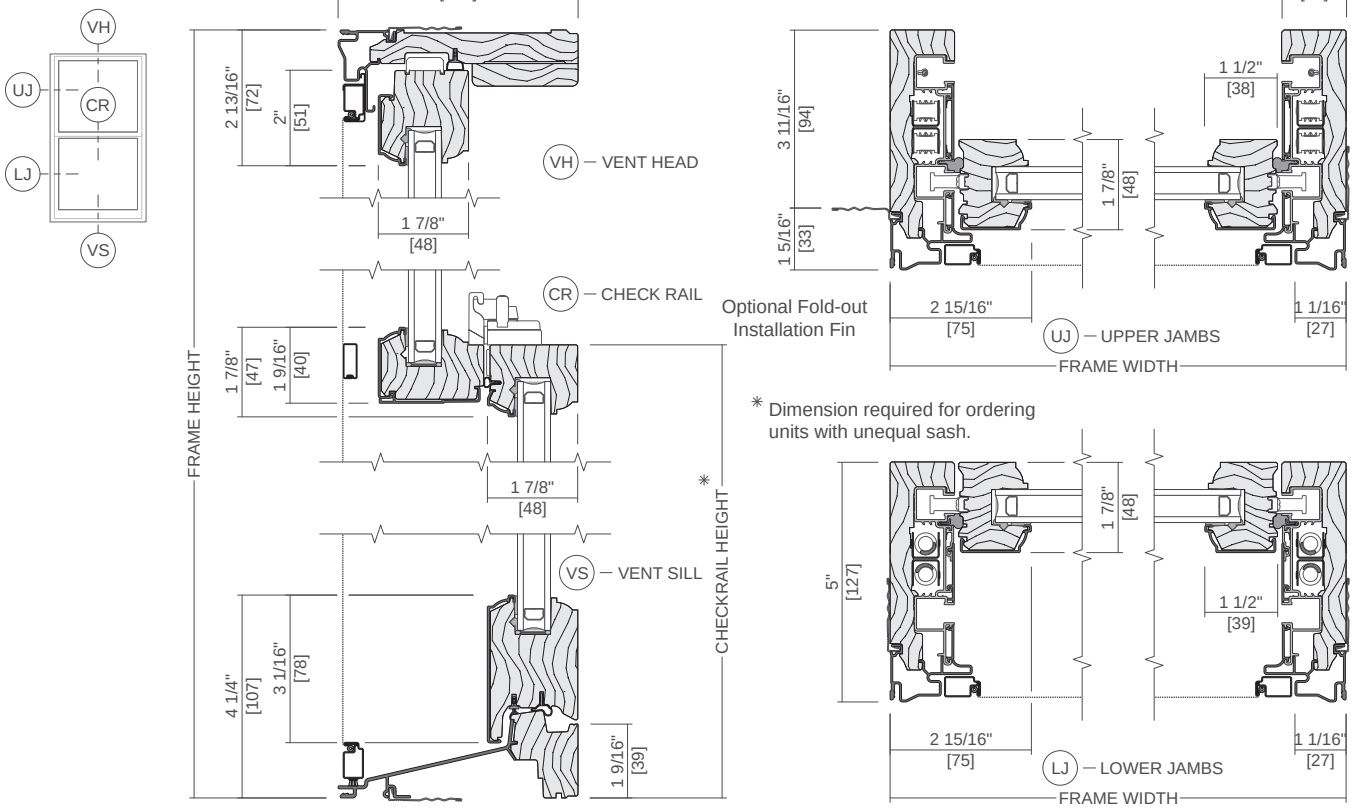
(4) Full screens are available on units ≤ 96" height.

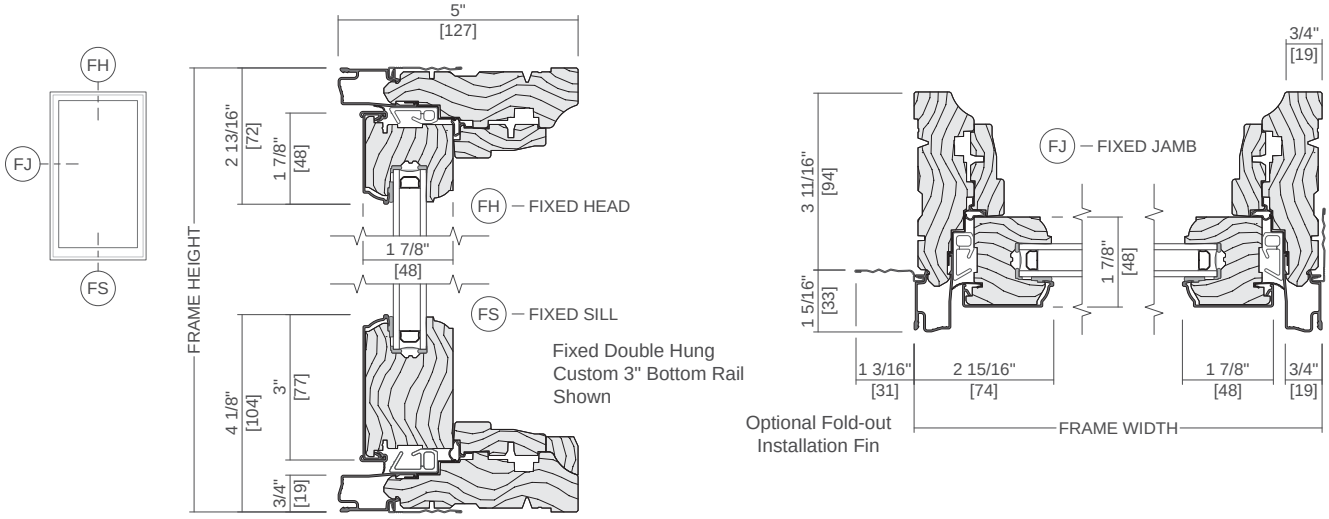
(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.

Unit Sections – Wood Collection



Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile

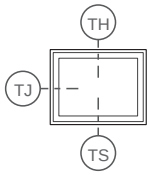


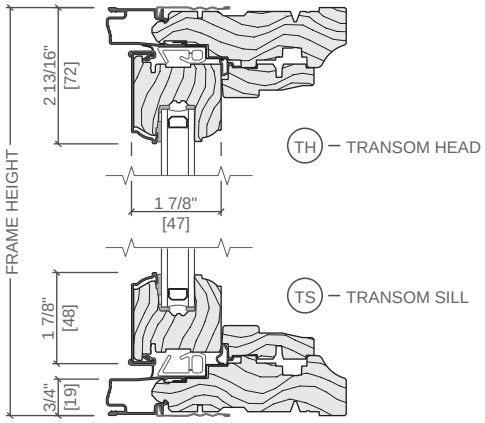


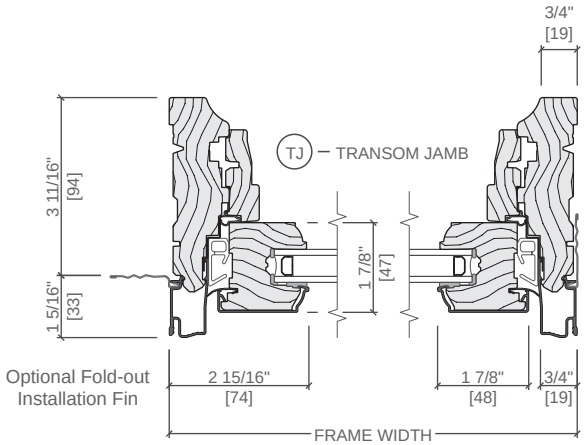
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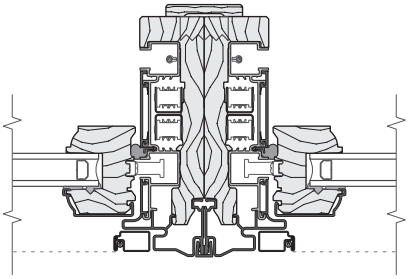
Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



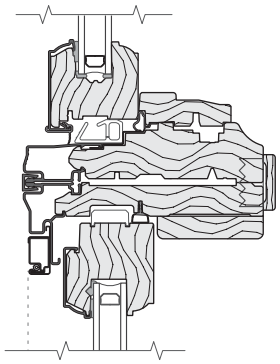




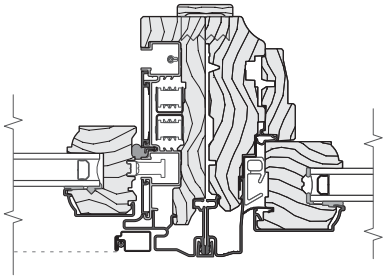
Typical Joining Mullions



VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



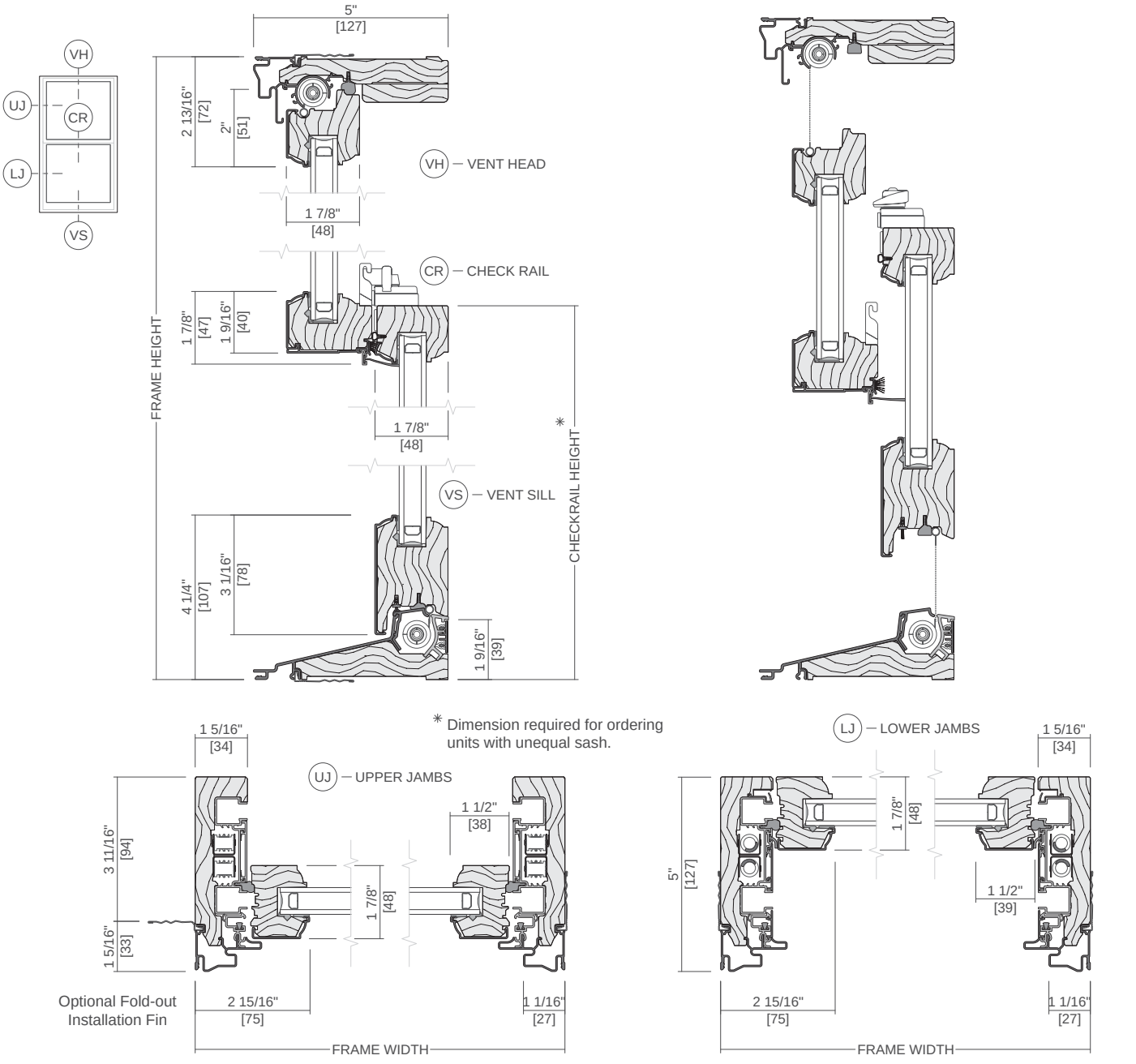
VERTICAL JOINING MULLION
LX VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

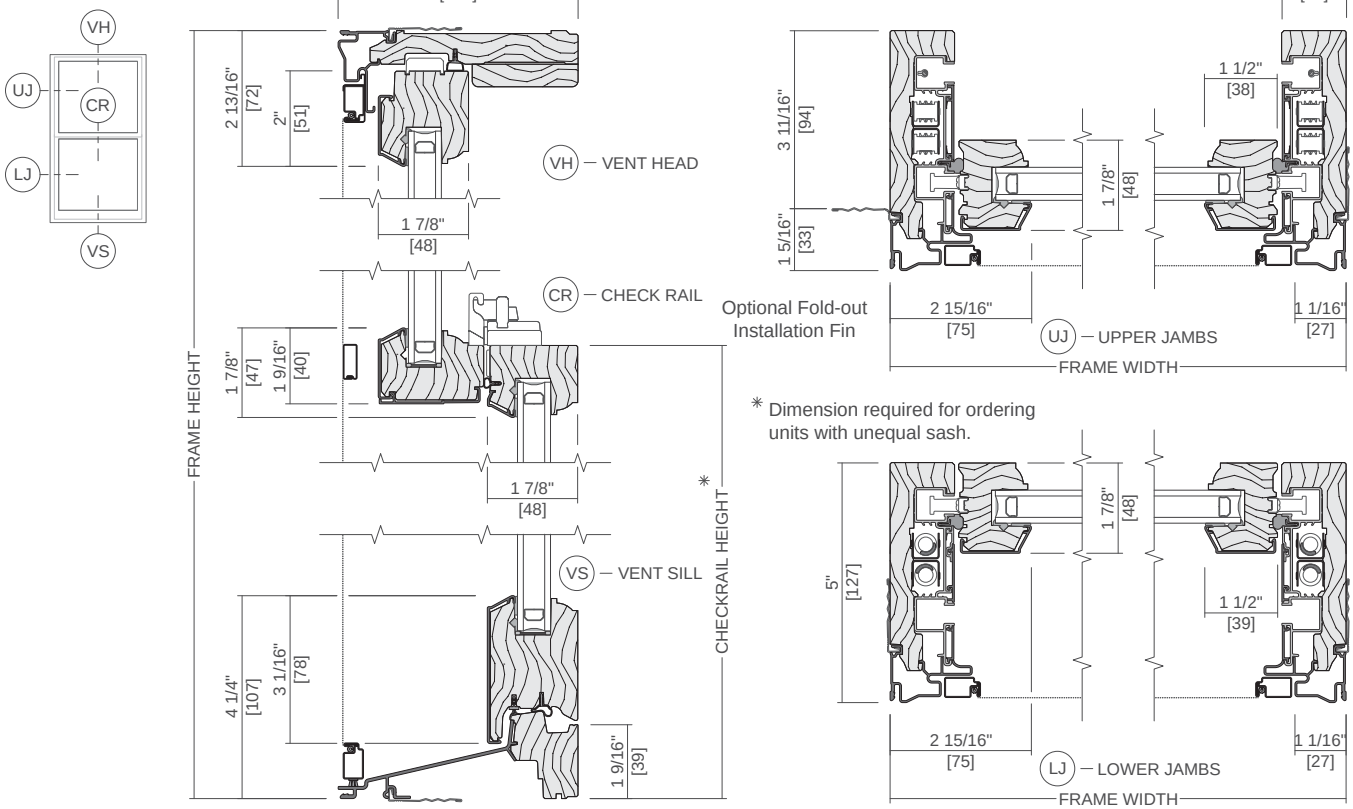
Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile with Integrated Rolscreen®

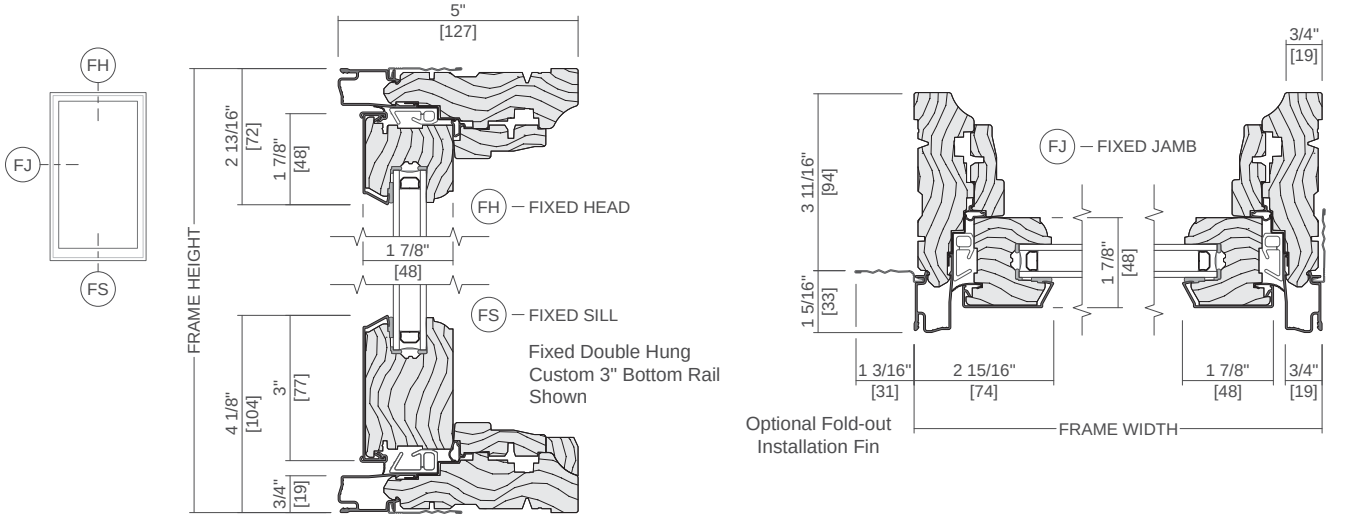


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Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile

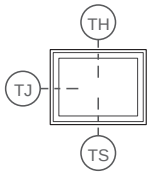


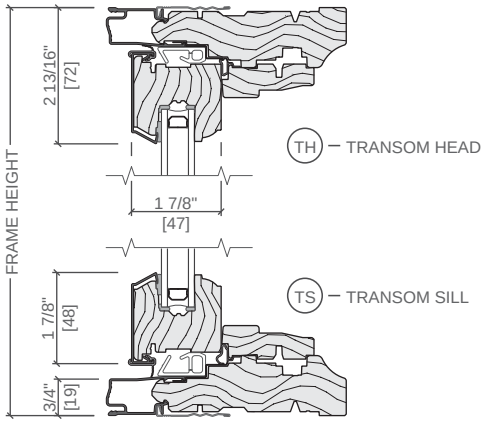


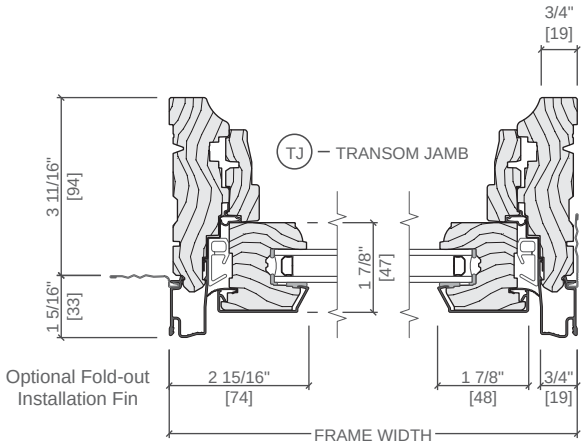
Scale 3" = 1' 0"

All dimensions are approximate.

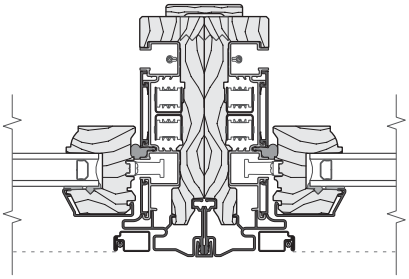
Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



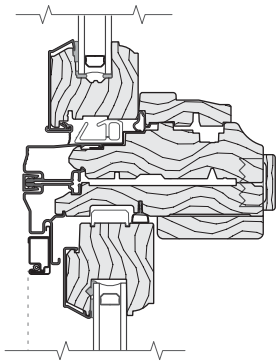




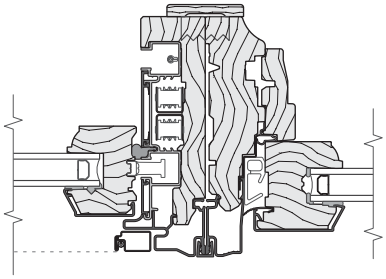
Typical Joining Mullions



VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



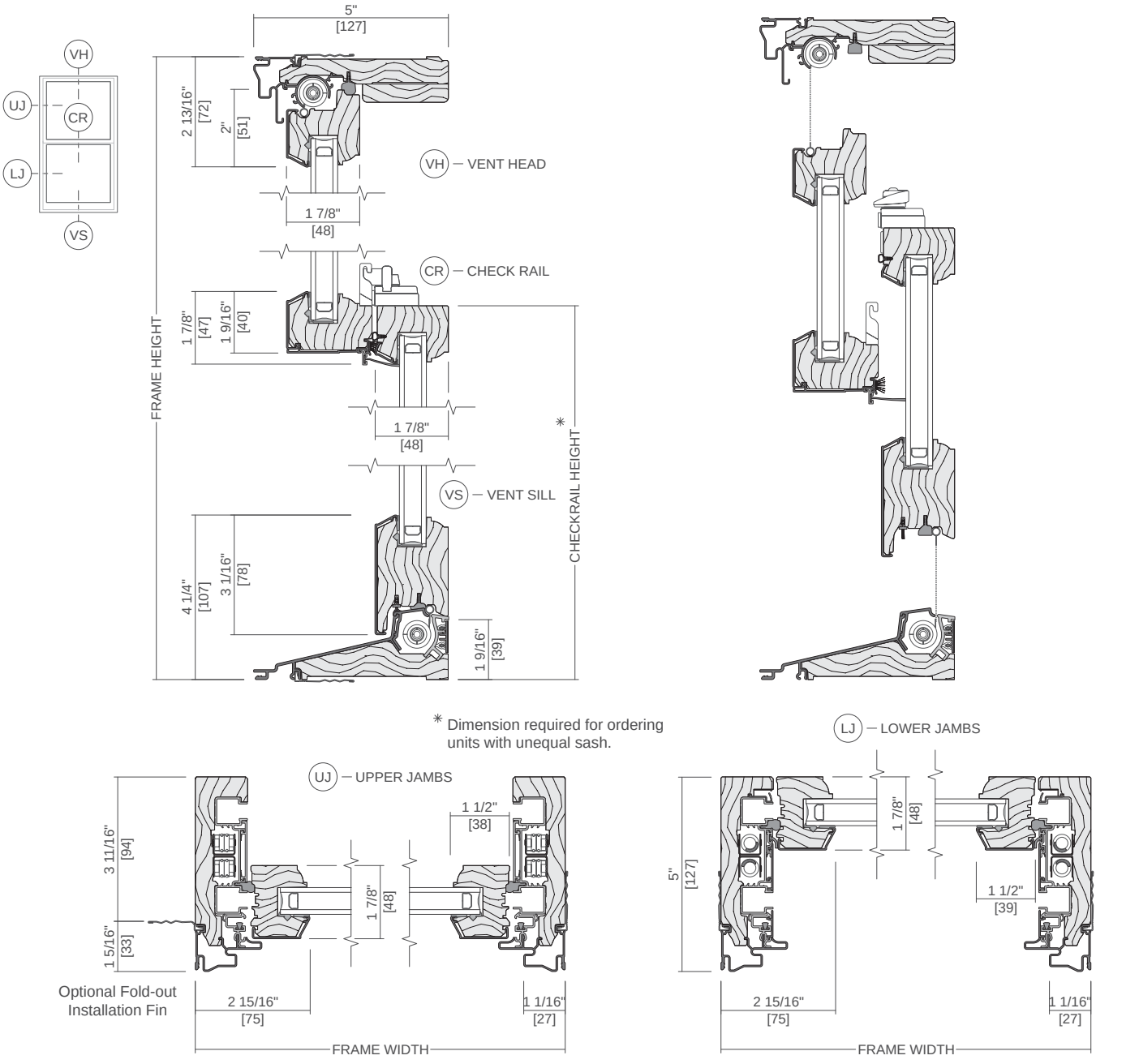
VERTICAL JOINING MULLION
LX VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

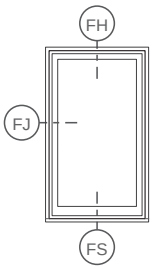
Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile with Integrated Rolscreen®

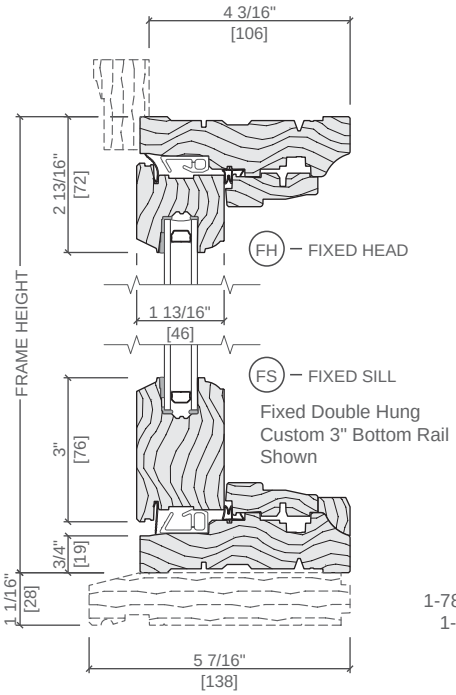


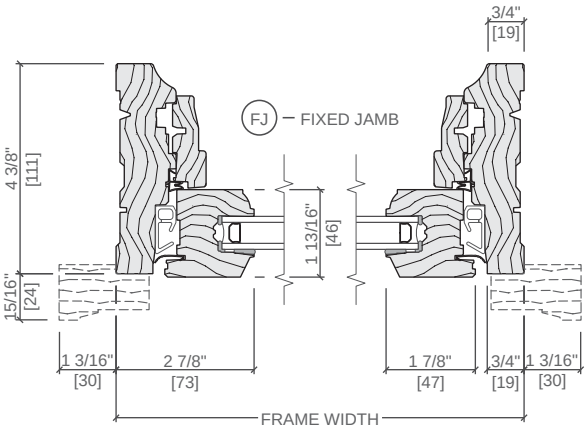
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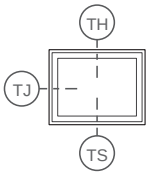
Unit Sections - Wood Exterior Putty Glaze Exterior Profile

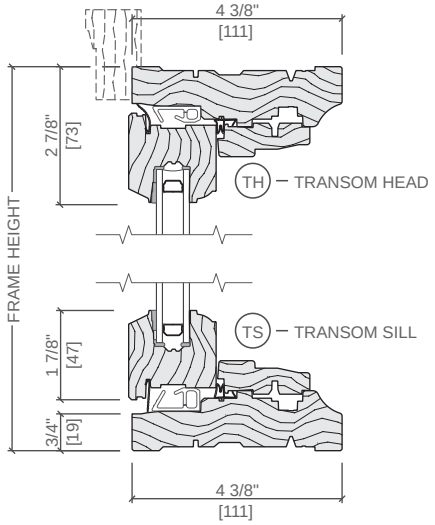


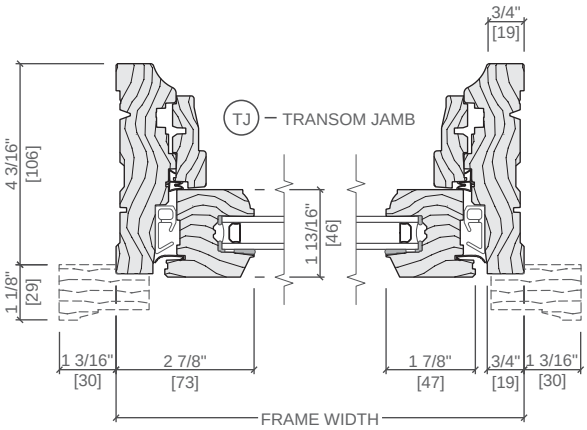


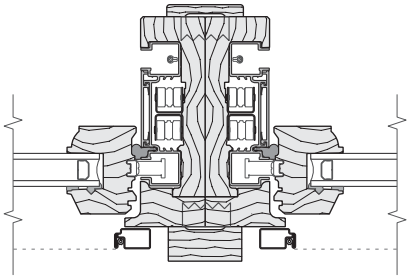


1-78" Brickmould #3443
1-1/8" Subsill #3544
Shown

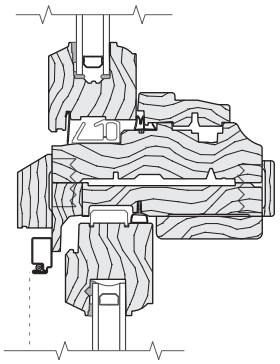




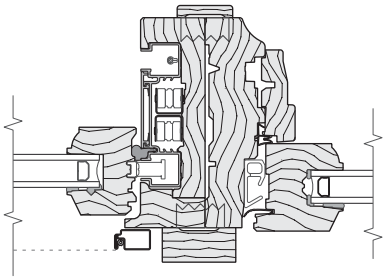




VERTICAL JOINING MULLION
LX VENT / LX VENT



HORIZONTAL JOINING MULLION
TRANSOM / VENT



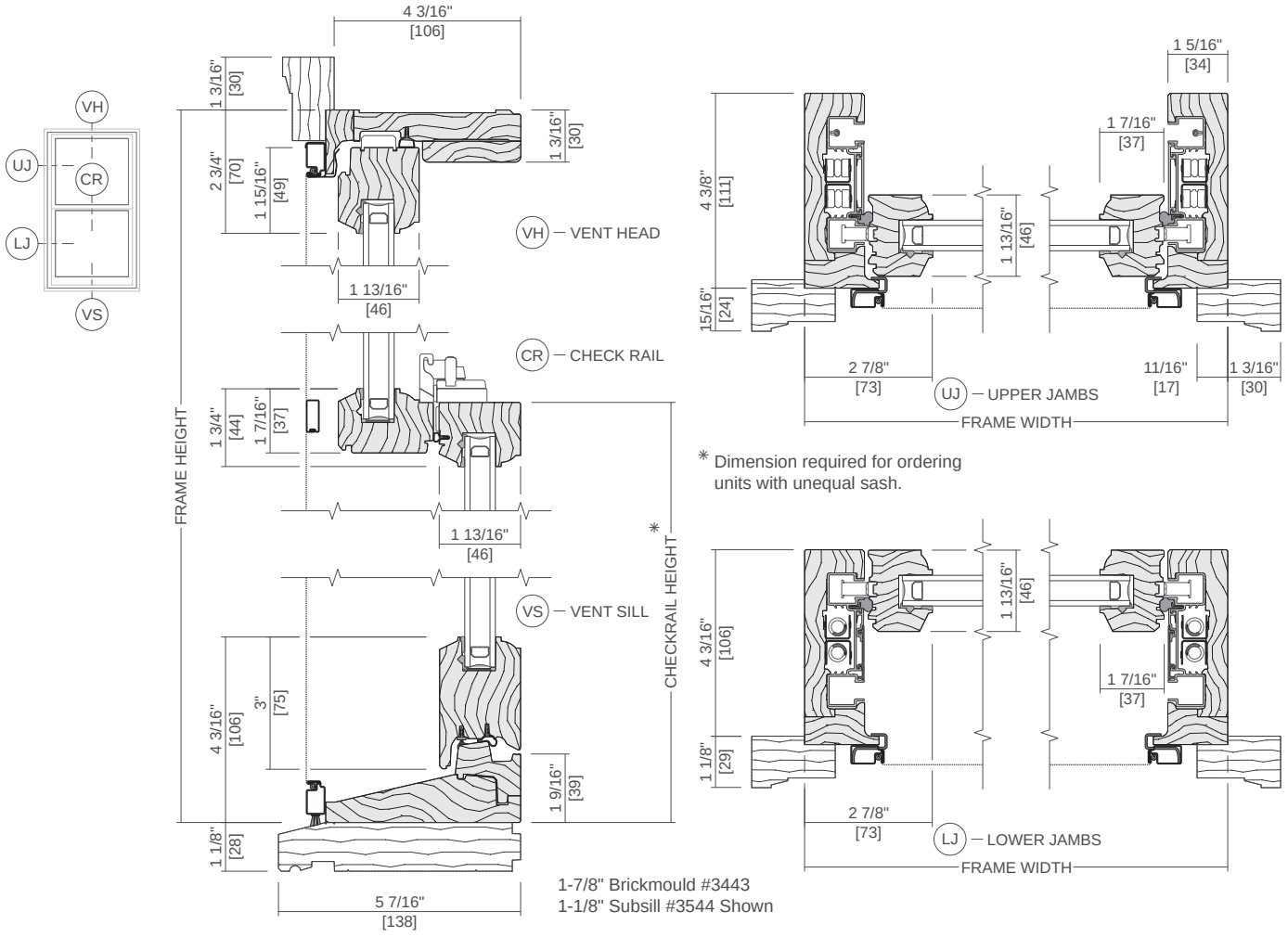
VERTICAL JOINING MULLION
LX VENT / FIXED

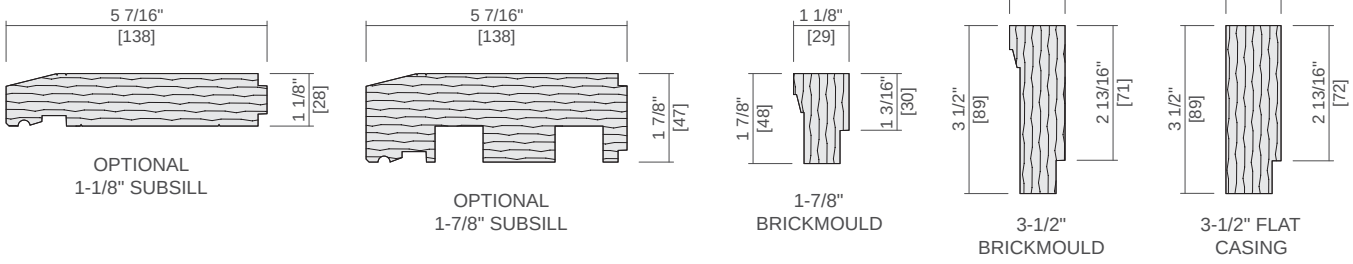
Scale 3" = 1' 0"

All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

Unit Sections - Wood Exterior Putty Glaze Exterior Profile





Scale 3" = 1' 0"

All dimensions are approximate.

PANEL STYLE 194 STRAIGHTLINE GLASS PANEL



Interior



Exterior

Summary

Configuration	Single Door
Interior Color	White
Glass	Low-E4® Glass
Hardware	Albany, Black
Grille Pattern	Colonial
Grille Width	3/4"
Exterior	Black

Feedback

ANDERSEN™ WINDOWS & DOORS

ENTRY DOORS





CREATE AN ENTRY DOOR WITH CHARACTER

Andersen® Entry Doors are handcrafted, built with solid fine grain wood and available with a variety of style options so you can create a one of a kind entryway, suited to fit you, and your home, perfectly.



- Select from a variety of richly-grained woods or make a bold first impression with color
- Choose from 50 commercial-grade, aluminum clad exterior colors
- Offered in 11 of the finest grades of wood species for both the interior and exterior
- Customize your door with a variety of decorative glass options and grille patterns
- Available as single-door or double-door configurations and either inswing or outswing operation
- Low-profile sill option available
- Many door styles are available, see andersenwindows.com/entrydoors for options

POPULAR DOOR STYLES

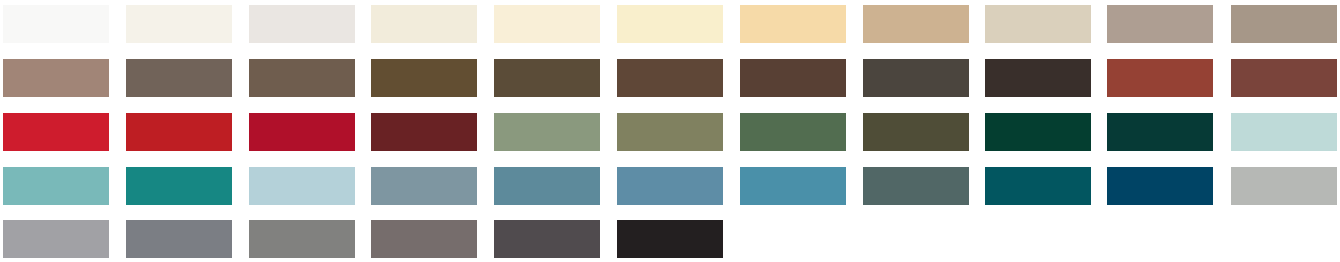


402 403 404 178 195 193 180 181 194 179 334 102

ENTRY DOORS

PRODUCT OPTIONS

EXTERIOR COLORS



EXTERIOR & INTERIOR WOOD SPECIES



*

INTERIOR PAINTED OPTIONS



HARDWARE OPTIONS**

Choose from Andersen® hardware or have your door prepped for hardware manufactured by others.

YUMA®



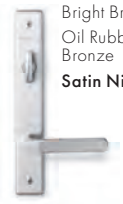
Distressed Bronze
Distressed Nickel

ENCINO®



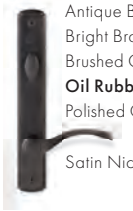
Distressed Bronze
Distressed Nickel

ANVERS®



Bright Brass
Oil Rubbed Bronze
Satin Nickel

NEWBURY®



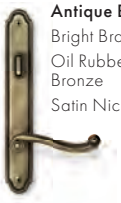
Antique Brass
Bright Brass
Brushed Chrome
Oil Rubbed Bronze
Polished Chrome
Satin Nickel

COVINGTON™



Antique Brass
Bright Brass
Oil Rubbed Bronze

WHITMORE®



Antique Brass
Bright Brass
Oil Rubbed Bronze
Satin Nickel

ALBANY



Black
Gold Dust
Stone
White

TRIBECA®



Black
Stone
White

Bold name denotes finish shown.

FSB® HARDWARE

Durable FSB hardware features clean lines and a sleek finish for a thoroughly modern look.



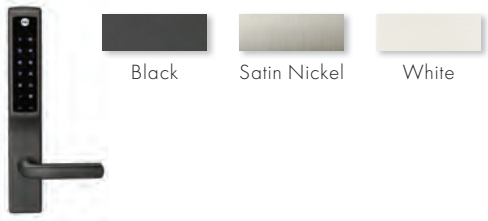
1035 1075 1076 1102†

Black Anodized Aluminum

Satin Stainless Steel

YALE® ASSURE LOCK®

The Yale Assure Lock allows you to monitor, lock and unlock your door from anywhere.



Black Satin Nickel White

ANDERSEN™ WINDOWS & DOORS

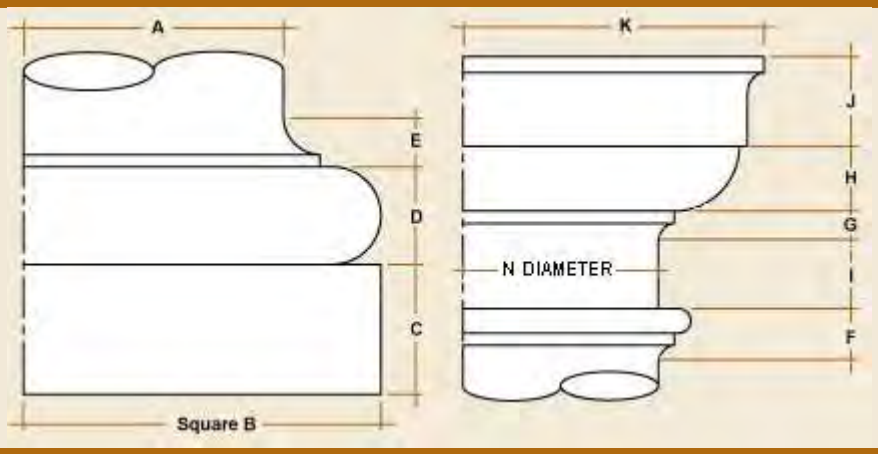
For more information, visit **andersenwindows.com/entrydoors**

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.
**Hardware is sold separately.
†FSB style 1102 is not available in black anodized aluminum.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.
Bright brass and satin nickel finishes on patio door hardware feature a 10-year limited warranty.
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

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No. 110 Dimension Chart

Tuscan - No.110



A	B	C	D	E	F	G	H	I	J	K	N
6	8	1 1/2	1 1/4	3/4	7/8	1/2	3/4	3/4	1	7 1/2	5
8	11	2	1 1/2	3/4	7/8	1/2	1	1	1 3/8	9 1/4	6
10	13 1/2	2 3/8	1 7/8	1	1 1/8	5/8	1 1/4	1 1/4	1 3/4	12	8
12	16	3	2 3/8	1 3/8	1 3/8	7/8	1 3/8	1 5/8	1 3/4	15	10
14	18 1/2	3 1/2	2 3/4	1 3/8	1 3/8	7/8	1 3/4	1 7/8	2 1/4	17 1/2	12
16	21	4	3 1/4	1 3/4	1 3/4	7/8	1 7/8	2 3/8	2 3/4	20	13 1/2
18	24	4 1/2	3 3/4	1 3/4	1 3/4	1 3/8	2 1/4	2 3/8	2 7/8	22 1/2	15
20	26 1/4	5	3 3/4	1 7/8	1 3/4	1 3/8	2 3/8	2 7/8	3 1/4	24 1/2	16 1/2
22	29	5 1/2	4 1/2	2 1/4	2 1/4	1 3/4	2 3/4	2 3/4	3 3/4	25 1/2	18
24	32	6	5	2 1/2	2 1/2	1 3/4	3	3 1/4	4	30	20
26	34 1/2	6 1/2	5 1/4	2 5/8	2 5/8	1 3/4	3 1/4	3 1/2	4 3/8	32 1/8	21 5/8
28	37	7	6	2 3/4	2 7/8	1 3/4	3 1/2	4	4 3/4	35	23 1/2
30	40	7 1/2	6 1/4	2 7/8	3 1/8	2 1/2	3 3/4	3 3/4	5	37 1/2	25



SOMERSET
DOOR & COLUMN

Since 1906

Somerset Door & Column

174 Sagamore Street
Somerset Pennsylvania, 15501
814-444-9427
info@doorandcolumn.com
www.doorandcolumn.com

OAKRIDGE®

Shingles | Tejas



Brownwood[1]

STREAKGUARD® ALGAE PROTECTION

MORE THAN JUST A ROOF®
IT'S PROTECTION FOR YOUR HOME.

Your home is the center of your world—where your memories are made. And we see it as our job to make the world a better place. So, Owens Corning is relentless about reimagining and creating materials that help protect your biggest investment, your home.

When you choose Owens Corning roofing products, you get products and systems that deliver a material difference—a difference that can be seen in the curb appeal of your roof and experienced through premium performance, protecting your home and family.

Our commitment to quality offers you peace of mind that your new roof will stand the test of time. At Owens Corning, we know that your roof does more than just cover your house, it helps protect your future memories.

PROUD TO BE CALLED THE BEST

For a decade, the Women's Choice Award has identified the best brands and companies, empowering women (and men!) to choose objectively evaluated products and services for themselves and their families. Owens Corning Roofing is proud to be named the Women's Choice Award as America's Most Recommended Roofing.



https://womenschoiceaward.com/brands/owens-corning/



ES MUCHO MÁS QUE UN TECHO,™
ES PROTECCIÓN PARA SU HOGAR.

Su hogar es el centro de su mundo, el sitio donde nacen sus recuerdos. Nuestra tarea es hacer del mundo un lugar mejor. En Owens Corning no descansamos cuando se trata de redefinir y crear materiales que ayuden a proteger su inversión más importante: su hogar.

Al escoger productos para techos de Owens Corning, usted recibe productos y sistemas que le ofrecen una diferencia sustancial, una diferencia que se ve en el aspecto espectacular del techo y que se siente mediante un desempeño superior que protege a su hogar y a su familia.

Nuestro compromiso con la calidad le da la tranquilidad de que su nuevo techo resistirá las pruebas del tiempo. En Owens Corning sabemos que su techo no solo cubre su casa, sino que también ayuda a resguardar sus recuerdos para el futuro.

ORGULLOSO DE NOS LLAMEN EL MEJOR

Durante una década, el Women's Choice Award ha identificado a las mejores marcas y compañías para que las mujeres (¡y los hombres!) puedan escoger para sí mismas y para sus familias productos y servicios que fueron evaluados concienzudamente. Owens Corning Roofing se enorgullece de haber recibido el Women's Choice Award como el Techo Más Recomendad de Estados Unidos.



Desert Tan[1]



HIGH PERFORMANCE
WITH BEAUTY TO MATCH

Oakridge® laminated shingles provide premium protection and impressive curb appeal. A full double layer in the nailing zone gives Oakridge® Shingles greater integrity and better holding power compared to shingles with single-layer nail zones. And the warm, inviting look in popular colors provides a step-up from traditional three-tab shingles.

Oakridge® Shingles are The Right Choice® for long-lasting performance and striking beauty.

Oakridge® Shingles offer:

- Limited Lifetime Warranty*/‡ (for as long as you own your home)
- 110/130 MPH Wind Resistance Limited Warranty*/‡‡
- StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty3/§

STREAKGUARD® ALGAE PROTECTION

Don't let black streaks lower the value or curb appeal of your home.
Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.



DESEMPEÑO ELEVADO
Y ASPECTO SIN IGUAL

Las tejas laminadas Oakridge® proveen una protección superior y un aspecto espectacular. Una doble capa integral en el área de clavado provee a las tejas Oakridge® de mayor integridad y mejor poder de agarre respecto de las tejas con zonas de clavado de una sola capa. Además, el cálido y atractivo aspecto en una gama de colores populares añade un toque de elegancia respecto de las tejas comunes de tres lengüetas.

Las tejas Oakridge® son The Right Choice® para lograr un desempeño duradero y un aspecto espectacular.

Las tejas Oakridge® ofrecen:

- Garantía limitada de por vida[*/‡] (mientras sea propietario de la vivienda)
- Garantía limitada de resistencia al viento[*/‡‡] de 177/209 km/h (110/130 mph)
- Protección StreakGuard® con una garantía limitada de 25 años de resistencia a las algas[3/§]

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

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

OAKRIDGE®

Shingles | Tejas



Brownwood[1]



Desert Tan[1]



Driftwood[1]



Estate Gray[1]



Onyx Black[1]



Teak[1]

COLOR DISCLAIMER

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

DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

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

Driftwood[1]



THE FINISHING TOUCH

OWENS CORNING® HIP & RIDGE SHINGLES

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

EL TOQUE FINAL

TEJAS DE LIMATESA Y CUMBRERA DE OWENS CORNING®

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



PREMIUM PROTECTION

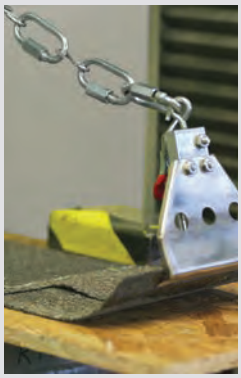
OAKRIDGE® SHINGLES

with a full common bond nail zone for Double Layer Protection

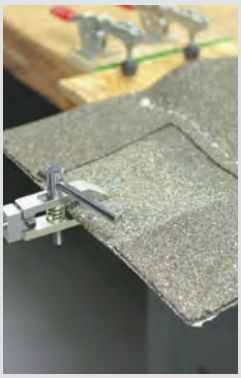
THE PROOF IS IN THE PERFORMANCE

Proven performance is what truly sets Owens Corning® architectural shingles above the rest. We brought our Oakridge® Shingles into the lab to test their performance against the two top competing wide, single-layer nailing zone shingles in three major tests. And in each test, the full double layer protection of Oakridge® Shingles outperformed the competition where it matters most—the nailing zone.

Oakridge Shingles vs. top two competitors†







NAIL PULL-THROUGH RESISTANCE

Up to

2X

BETTER

NAIL BLOW-THROUGH RESISTANCE

Up to

7X

BETTER

DELAMINATION RESISTANCE

Up to

1.5X

BETTER

PROTECIÓN PREMIUM

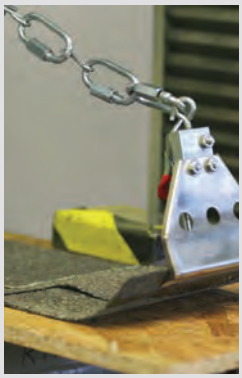
TEJAS OAKRIDGE®

con una zona de clavado de adhesión común total para una protección de dos capas

LA PRUEBA ESTÁ EN EL DESEMPEÑO

Su desempeño comprobado ubica a las tejas arquitectónicas de Owens Corning® por encima de la competencia. Llevamos las tejas Oakridge® al laboratorio para comparar su desempeño en tres puntos principales respecto de las dos mejores tejas con zonas de clavado ancho de una sola capa de la competencia. En cada prueba, la protección de las dos capas completas de la Tejas Oakridge® superó a la competencia en donde importa más: en la zona de clavado.

Las tejas de la serie Oakridge® vs dos de sus competidoras principales†



RESISTENCIA A LA TRACCIÓN DE LOS CLAVOS

Hasta

2X

MEJOR



RESISTENCIA AL DESPRENDIMIENTO DE LOS CLAVOS

Hasta

7X

MEJOR



RESISTENCIA A LA DELAMINACIÓN

Hasta

1.5X

MEJOR



REGISTER YOUR WARRANTY

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

SCAN TO REGISTER YOUR WARRANTY

Escanee para registrar su garantía



REGISTRE SU GARANTÍA

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

TOTAL PROTECTION SIMPLIFIED®

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

PROTECCIÓN TOTAL SIMPLIFICADA®

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

SEAL. SELLAR.

Helps create a waterproof barrier

Ayuda a crear una barrera impermeable

DEFEND. DEFENDER.

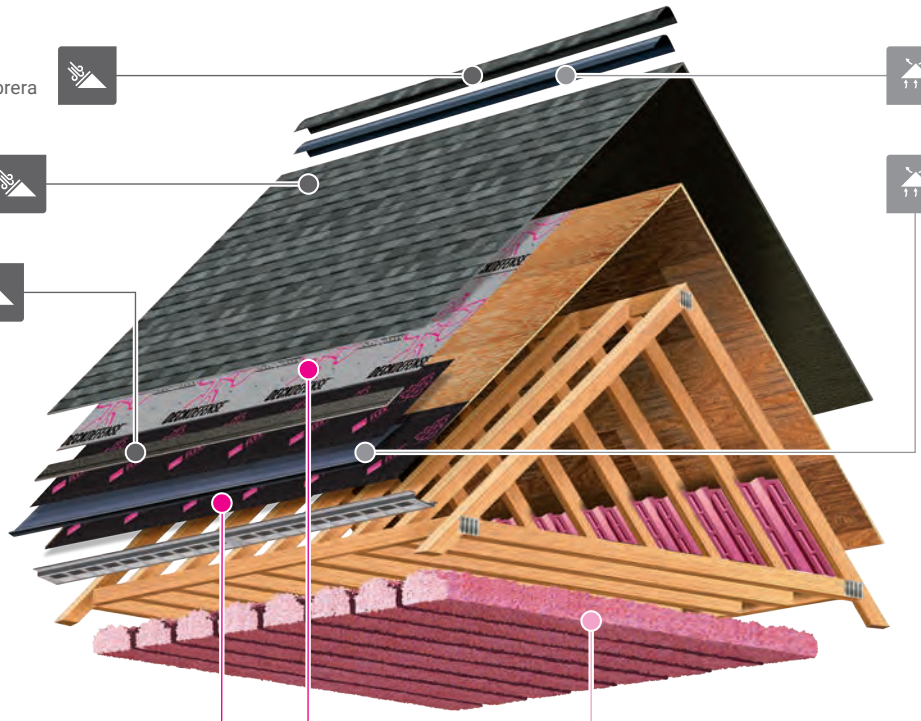
Helps protect against nature's elements

Protege contra los elementos climáticos

BREATHE. RESPIRAR.

For balanced attic ventilation

Para una ventilación equilibrada del ático



Hip & Ridge shingles
Tejas de limatesa y cumbrera

Laminate shingles
Tejas laminadas

Starter shingles
Tejas de arranque

Exhaust vents
Salidas de aire

Intake vents§§
Entradas de aire§§

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

Synthetic underlayment
Membrana impermeabilizante sintética

+ COMFORT. CONFORT.

Add comfort and energy performance
Más confort y desempeño energético

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

§§ For intake ventilation, use approved Owens Corning® Vent Sure® InFlow ventilation or soffit ventilation. Do not use both intake ventilation options in one roofing application. See install instructions for more details.

§§ Para la ventilación de entrada, utilice la ventilación aprobada por Owens Corning® Vent Sure® InFlow o ventilación de sofito. No utilice ambas opciones de ventilación de entrada en una misma aplicación para techos. Consulte las instrucciones de instalación para obtener más detalles.

Product Attributes

Warranty Length*/‡

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

Wind Resistance Limited Warranty*/‡‡

110/130-MPH

Algae Resistance Limited Warranty*/§

25 Years

TRU PROtection® Non-Prorated Limited Warranty* Period

10 Years

Product Specifications

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

Applicable Standards and Codes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Type 1)
- ICC-ES AC438#
- ASTM D3161 (Class F Wind Resistance)
- ASTM D7158 (Class H Wind Resistance)
- ASTM E108/UL 790 (Class A Fire Resistance)
- PRI ER 1378E01
- Florida Product Approval
- Miami-Dade County Product Approval[2]

Características del producto

Período de garantía*/‡

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

Garantía limitada de resistencia al viento*/‡‡

177-209 km/h (110-130 mph)

Garantía limitada de resistencia a las algas*/§

25 años

Período no prorrateado de garantía limitada* TRU PROtection®

10 años

Especificaciones del producto

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

Normas y códigos pertinentes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Tipo 1)
- ICC-ES AC438#
- ASTM D3161 (Resistencia al viento, Clase F)
- ASTM D7158 (Resistencia al viento Clase H)
- ASTM E108/UL 790 (Resistencia al fuego Clase A)
- PRI ER 1378E01
- Aprobación del producto en el estado de Florida
- Producto aprobado por el condado de Miami-Dade[2]

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

‡ 40-Year Limited Warranty on commercial projects.

‡‡ 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

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

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

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

1 See Color Disclaimer information on page 6 for additional details.

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

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

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

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

‡ Garantía limitada de 40 años para proyectos comerciales.

‡‡ La velocidad de 177 km/h (110 mph) es estándar con la aplicación de 4 clavos. La velocidad de 209 km/h (130 mph) solo se aplica cuando se usan 6 clavos y tejas de hilada inicial de Owens Corning® a lo largo de aleros y cornisas de acuerdo con las instrucciones de instalación.

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

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

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

1 Para obtener más información, consulte el Descargo de responsabilidad sobre los colores, en la página 6.

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

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

§ La instalación debe incluir el uso de un producto para limatesa y cumbrera de Owens Corning®. Para obtener más información, consulte la garantía.

OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK® | 1-800-438-7465
www.owenscorning.com

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(Brookville, Irving, Kearny, Medina, Memphis, Minneapolis, Summit)

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(Brookville, Irving, Kearny, Medina, Memphis, Minneapolis, Summit)

Amerimax

Roof Drainage Systems



Full Range of Special Order Gutter Colors Available!

***Call Amerimax for Details**

5" Gutter System	
Gutter: Sold 10' sections (5")	24002 _ _ _*
Downspout: 10' (2"x3")	24019 _ _ _*
Inside Miter: (5")	5INM _ _ _*
Outside Miter: (5")	5OTM _ _ _*
Right End: (5")	5ENR _ _ _*
Left End: (5")	5ENL _ _ _*
Seamer: 2 per pack with 1 oz. SeamerMate® (Available in 5" only)	25008 _ _ _*
Hidden Hanger with Hex Head Screw: (5")	210121
Hidden Hanger with Roof Strap: 4 pack, nails included. Use when no Fascia Board available (5" only)	21030PK
Unpainted Outlet: (2"x3")***	21051
"A" Style Elbow: (2"x3")	3AE _ _ _*
"B" Style Elbow: (2"x3")	3BE _ _ _*
Downspout Bands	DPB _ _ _*
SeamerMate® 10 oz. Cartridge	85148 or 85150**
Sheet Metal Screws: 8 Per Pack	85354 _ _ _*
Touch-Up Paint: 12 oz. can, 12 Per Carton	13TUP_ _ _*

6" Gutter System	
Gutter: Sold 10' sections (6")	44002 _ _ _*
Downspout: 10' (3"x4")	44011 _ _ _*
Inside Strip Miter: (6")	6ISM _ _ _*
Outside Strip Miter: (6")	6OSM _ _ _*
Right End: (6")	6ENR _ _ _*
Left End: (6")	6ENL _ _ _*
Hidden Hanger with Hex Head Screw: (6")	47814
Unpainted Outlet: (3"x4")	47251
"A" Style Elbow: (3"x4")	4AE _ _ _*
"B" Style Elbow: (3"x4")	4BE _ _ _*
Downspout Bands	DPB _ _ _*
SeamerMate® 10 oz. Cartridge	85148
Sheet Metal Screws: 8 Per Pack	85354 _ _ _*
Touch-Up Paint: 12 oz. can, 12 Per Carton	13TUP_ _ _*

Important Notes:

Allow two week lead time

10' Gutter Sections available only

See page A1 in the Appendix for "Gutter Facts You Should Know Before Purchasing Your Roof Drainage Systems"

End with Drop not available in this program

***21051 Unpainted Outlets are not visible after installation

6" Seamer not available. Installation requires overlap of gutter, screw, and seal with SeamerMate®

Color Fandecks Available



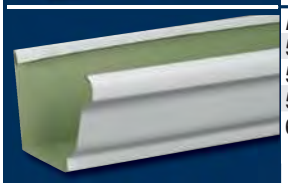
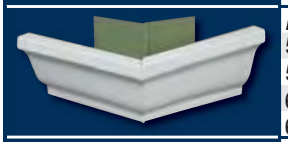
Use the Color Designation below to indicate preferred color:

30° White	010 or 30W
80° White	020 or 80W
Alcoa Musket Brown	AMB
Almond	069 or AL
AMP Dark Bronze	ADB
Black	025 or BL
Bone Linen	230 or LI
Dark Bronze	051 or DBZ
Grecian Green	217 or GG
Herringbone	220 or HE
Heritage Cream	027 or HC

Light Maple	028 or LM
Musket Brown	059 or MB
Natural Clay	790 or NC
Pearl Gray	053 or PG
Pebblestone Clay	PB
Red	221 or RE
Royal Brown	015 or RB
Savannah Wicker	460 or SW
Terra Bronze	200 or BZ
Tuxedo Gray	056 or TG

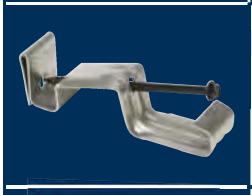
K Style Aluminum Gutter

See page A1 in the Appendix for "Gutter Facts You Should Know Before Purchasing Your Roof Drainage Systems"

	Description	Carton Qty	White 30°	Brown	Natural Clay	High Gloss White 80°	Royal Brown
	**Straight Back Gutter **10'**						
	5" .0185"	10	26006	2400619	2400679	-	-
	5" .0255"	10	26002	2400219	-	-	-
	5" .0305"	10	26003	-	-	-	-
	6" .0255"	5	46002	-	-	-	-
	**Hem Back Gutter **10'**						
	5" .0255"	8	26004	-	-	-	-
	5" .027"	5	-	-	-	K10HG5	K10BR5
	5" .032"	10	-	-	-	K10325	K10B35
	6" .032"	5	-	-	-	K10326	K10BR6
	**Miter, Inside**						
	5"	20	-	-	-	5INM80W	5INMRB
	5"	10	27201	2520119	25001079	-	-
	6"	10	47001	-	-	6INM80W	6INMRB
	**Miter, Outside**						
	5"	20	-	-	-	5OTM80W	5OTMRB
	5"	10	27202	2520219	25002079	-	-
	6"	10	47002	-	-	-	-
	6"	20	-	-	-	6OTM80W	6OTMRB
	**Strip Miter, Inside**						
	5"	20	-	-	-	5ISM80W	5ISMRB
	6"	20	-	-	-	6ISM80W	6ISMRB
	Bay Strip Miter, Inside						
	5"	20	-	-	-	5ISMBG80W	-
	6"	20	-	-	-	6ISMBG80W	-
	**Strip Miter, Outside**						
	5"	20	-	-	-	5OSM80W	5OSMRB
	6"	20	-	-	-	6OSM80W	6OSMRB
	Bay Strip Miter, Outside						
	5"	20	-	-	-	5OSMBGS80W	-
	6"	20	-	-	-	6OSMB80W	-
 2x3 drop	**End w/Drop 5"**						
	2" x 3" Drop	12	27010	2501019	2501079	-	-
	2" x 3" Drop	20	-	-	-	KEPHG5	KEPBR5
 3x4 drop (assembly required)	3" x 4" Drop*	12	27080*	2508019*	-	-	-
	End w/Drop 6"						
	3" x 4" Drop*	10	47080*	-	-	-	-
	*Includes two pieces. Assembly required.						
	**Left End**						
	5"	50	27005	-	-	5ENL80W	5ENLRB
	5"	15	27205	2520519	25005079	-	-
	6"	50	47005	-	-	6ENL80W	6ENLRB
	**Right End**						
	5"	50	27006	-	-	5ENR80W	5ENRRB
	5"	15	27206	2520619	25006079	-	-
	6"	50	47006	-	-	6ENR80W	6ENRRB
	**Connector**						
	5"	50	-	-	-	KSJHG5	KSJBR5
	5"	30	27209	2520919	2500979	-	-
	**Seamer with 1 oz. SeamerMate®**						
	5", 2/bag	25	27008	2500819	25008079PK	-	-
	6", 2/bag	25	4700825	-	-	-	-

K Style Aluminum Gutter

See page A1 in the Appendix for "Gutter Facts You Should Know Before Purchasing Your Roof Drainage Systems"

	Description	Carton Qty	Unpainted	White 30°	Brown	Natural Clay	High Gloss White 80°	Royal Brown
	***Hidden Hanger w/Screw***							
	5" - Aluminum	100	210121	-	-	-	-	-
	5" - Aluminum	250	21812	-	-	-	-	-
	See pages 19-22 for more hanger choices.							
	***Gutter Screws and Ferrules 10/Pack***							
	7" - Galvanized	12 pks	-	33047PK	3304719PK	-	-	-
	Gutter Screws only Bulk							
	7" - Galvanized	250	-	33246	-	-	-	-
	See pages 19-22 for more hanger choices.							
	***Downspout 10' Square Corrugated***							
	2" x 3" .0145"	10	DSSCPMF3	26010	2401019	2401079	-	-
	2" x 3" .0175"	10	-	26011	2401119	-	-	-
	2" x 3" .019"	10	-	-	-	-	24019020	24019015
	2" x 3" .024"	10	-	DSSC24H3	DSSC24B3	-	-	-
	3" x 3" .024"	10	-	L4061	L4161	-	-	-
	3" x 4" .0175"	10	-	46011	4401119	-	-	-
	3" x 4" .024"	10	DSSCPMF4	-	-	-	DS4102480W	DS41024RB
	***Downspout Extension 15"***							
	2" x 3"	24	-	27075	2507519	25075079	-	-
	3" x 4"	14	-	47075	4507519	-	-	-
	***Downspout Band*** • *Fits 2" x 3" and 3" x 4" downspouts*							
		200	-	27229	2522919	-	-	-
		100	-	-	-	25029079	DPB80W	DPBRB
	***Front Elbow "A" (75 degree) Square Corrugated***							
	2" x 3"	30	-	27064	-	-	3AE80W	3AERB
	2" x 3"	15	-	27264	2526419	25064079	-	-
	3" x 3"	10	-	L4066	L4166	-	-	-
	3" x 4"	10	-	47264	4526419	-	-	-
	3" x 4"	15	-	-	-	-	4AE80W	-
	3" x 4"	15	-	-	-	-	-	4AERB
	Front Elbow "A" (90 degree) Square Corrugated							
	2" x 3"	30	-	-	-	-	3AES80W90	3AESRB90
	3" x 4"	15	-	-	-	-	4AES80W90	4AESRB90
	Front Elbow "A" (60 degree) Square Corrugated							
	2" x 3"	30	-	-	-	-	3AES80W60	3AESRB60
	3" x 4"	30	-	-	-	-	4AES80W60	4AESRB60
	***Side Elbow "B" (75 degree) Square Corrugated***							
	2" x 3"	30	-	27065	-	-	3BE80W	3BERB
	2" x 3"	15	-	27265	2526519	25065079	-	-
	3" x 4"	15	-	-	-	-	4BE80W	4BERB
	3" x 4"	10	-	47265	4526519	-	-	-
	Side Elbow "B" (90 degree) Square Corrugated							
	2" x 3"	30	-	-	-	-	3BES80W90	3BESRB90
	3" x 4"	30	-	-	-	-	4BES80W90	4BESRB90
	Side Elbow "B" (60 degree) Square Corrugated							
	2" x 3"	30	-	-	-	-	3BES80W60	3BESRB60
	3" x 4"	30	-	-	-	-	4BES80W60	4BESRB60
	***Vinyl Transition Elbow*** • *Transitions from "A" style to "B" style* • *Can be used with metal and vinyl gutter systems.*							
	2" x 3"	30	-	37064	-	-	-	-
	3" x 4"	12	-	37065	-	-	-	-

Refer to page 23 for Outlets

Colors shown are for reference only. All thicknesses are inches unless otherwise noted. Tolerance is ± .002 inches.

CLASSIC™ STEEL

VALUE
garage doors

Clopay®

America's Favorite Garage Doors®



***Classic™ Steel** / Model T40S, Short Traditional Panel with Plain Short Windows*

CLASSIC™ STEEL

VALUE

Improve your home's appearance with a Clopay Classic™ Steel Value garage door. Available in 24 or 25 gauge steel with a durable 2" steel frame construction, Classic™ Steel Value models are designed for beautiful, long-lasting performance. Choose from multiple panel styles, many color options and a wide range of window options to create a door that fits your budget and enhances your home's curb appeal.



	Tongue-and-Groove Section Joints	Shiplap Section Joints
24 GAUGE STEEL	**T40S** short panel **T40L** long panel	**94** short panel
25 GAUGE STEEL	**T50S** short panel **T50L** long panel **70B** ribbed panel	**73** short panel **76** long panel

1-LAYER CONSTRUCTION

Heavy 24 or 25 gauge steel construction ensures durability, security and classic style at an affordable price.

- Tongue-and-groove/shiplap section joints keep out wind, rain and snow.
- Replaceable vinyl bottom weatherseal in a corrosion-resistant retainer helps seal out the elements.
- Clopay's Safe-T-Bracket® helps prevent serious injury that could occur if the bottom bracket were removed with the garage door closed and under tension.
- Long-life nylon rollers are smooth and quiet.
- Galvanized steel hinges are durable, reliable and secure.
- Inside/outside step plates and grip handles make doors easy and safe to manually operate.



***Classic™ Steel** / Model T50S, Short Traditional Panel with Optional Colonial 509 Window Design*

DETAIL

Deep panel edging and natural embossed woodgrain texture improve appearance close-up and from the curb.

STYLE



Traditional Short
Complements homes with traditional styling. Models T40S, T50S, 94 and 73.



Traditional Long
Ideal for ranch style homes. Models T40L, T50L and 76.



Ribbed
Good option for transitional style homes or utility structures. Model 70B.

Doors range from 6' to 16' high and 6' to 20' wide.
Consult your Clopay Dealer for size options.
WindCode® doors available to meet most regional wind load requirements.
Consult your local dealer for specific information.



***Classic™ Steel** / Model 94, Short Traditional Panel*

STANDARD COLORS

Standard White | Almond | Desert Tan

Sandtone | Chocolate | Black*

** Available on Model 94. Additional charges apply (Note: door uses 24 gauge steel).*
Due to the printing process, colors may vary.
Model 70B available only in Standard White and Chocolate.

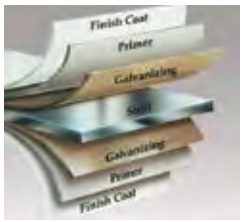
- Exterior steel on standard color doors has a natural woodgrain texture.
- Doors can be painted to match the home's exterior using a high-quality latex exterior paint. Do not use oil-based paint.

CUSTOM PAINT OPTION

COLOR BLAST

Choose from over 1,500 Sherwin-Williams® paint colors to complement your home with Clopay's Color Blast® factory-finishing option. Our durable two-part paint system is tested and backed by a five-year warranty.

RUST-PREVENTION SYSTEM



Steel skins are protected through a tough, layered coating system, including a hot-dipped galvanized layer, a protective metal oxide pretreatment and a baked-on primer and top coat.

STEP PLATE/LIFT HANDLE



Color-matched exterior step plate/lift handles are durable, attractive and allow for safe opening and closing of your door.



***Classic™ Steel** / Model 73, Short Traditional Panel Design*

ENVIRONMENTAL ASSURANCE

All Clopay doors are compliant with environmental laws and regulations and do not contain HFCs:

- California SB 1013
- New Jersey A-5583/S-3919 – Greenhouse Gas Bill
- Washington HB 1112 – Hydrofluorocarbon Greenhouse Gas Emissions
- Canadian regulations amending the ozone-depleting substances and halocarbon alternatives regulations

WARRANTIES

PAINT SYSTEM	PAINT SYSTEM	PAINT SYSTEM	WINDOW	HARDWARE
LIMITED LIFE WARRANTY	LIMITED 15YR WARRANTY	LIMITED 10YR WARRANTY	LIMITED 10YR WARRANTY	LIMITED 3YR WARRANTY
Models T40, 94	*Models T50, 73, 76*	*Model 70B*	*All Models*	*All Models*



***Classic™ Steel** / Model 70B, Ribbed Panel*

WINDOW OPTIONS

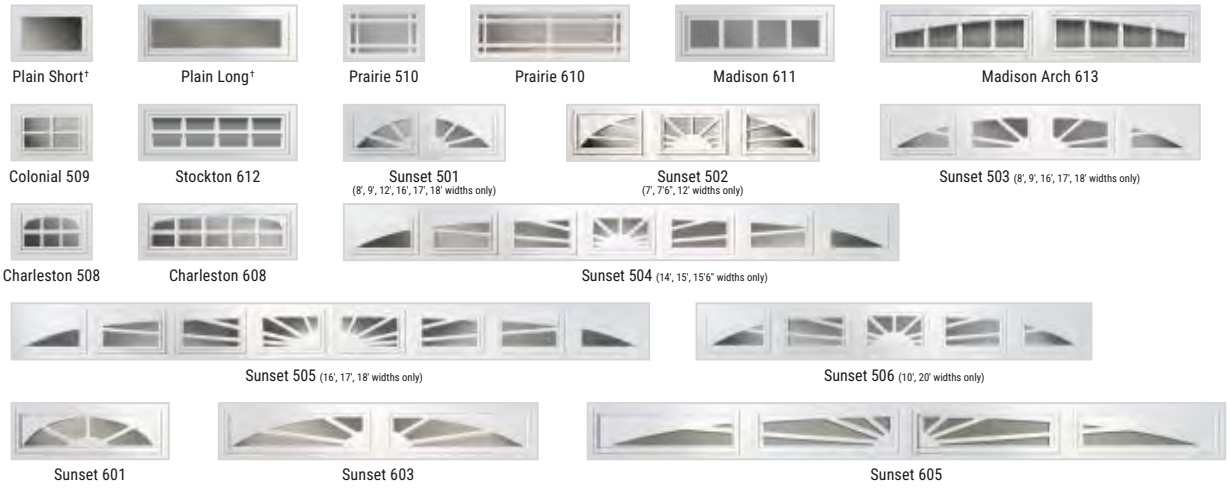
Windows bring natural light into the garage and enhance your home's curb appeal. All Clopay window frames are UV-protected and are color matched to our prefinished door colors. Window frames screw in from the inside for easy glass replacement or to change designs.

DECORATIVE INSERT SERIES WINDOWS

UV-protected cellular plastic inserts snap into the inside or outside of the window frame for easy cleaning or to change designs. Windows are available in single strength, double strength, acrylic or obscure glass. Short windows are 19-1/2" × 12"; long windows are 40-1/2" × 12".

Available on These Models

T40S* 94*
T40L 73*
T50S* 76
T50L



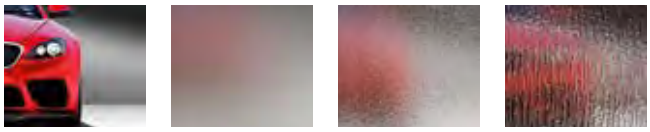
Ribbed Panel Window (Model 70B Only)



Standard Window

Short windows not available on long panel doors.
**Panel emboss may not align with windows due to size difference. Some size limitations apply.*
†Shown with clear glass. Acrylic and obscure glass optional.
Additional charges for optional glass apply.
Acrylic windows require special cleaning. See care and maintenance manual.

Windows are available single pane in clear, frosted, obscure and rain designs. Clear acrylic also available.



Clear | Frosted | Obscure | Rain

Clopay®

MADE IN USA

Visit clopaydoor.com or call **1-800-2CLOPAY (225-6729)** for more information on Clopay, America's Favorite Garage Doors.

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RSDR-VALUESS-12_REV0226

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OPEN CAMERA AND POINT!