



## Bristol Historic District Commission

### Application for Review of Proposed Work - Printable Application

|           |              |              |
|-----------|--------------|--------------|
| HDC-26-67 | Contributing | May 14, 2026 |
|-----------|--------------|--------------|

**THIS DOCUMENT IS NOT A SUBSTITUTE FOR A BUILDING, ELECTRICAL, SIGN, MECHANICAL, DEMOLITION, SOLAR OR FENCE PERMIT APPLICATION. THESE PERMITS MUST BE APPLIED FOR AND APPROVED BY THE BRISTOL BUILDING DEPARTMENT BEFORE WORK CAN BEGIN.**

|                                     |                     |
|-------------------------------------|---------------------|
| Project Address                     | Assessor's Plat/Lot |
| 99 BRADFORD ST , BRISTOL, RI, 02809 | 013-0059-000        |

|                   |                    |                   |
|-------------------|--------------------|-------------------|
| Applicant         | Architect/Engineer | Contractor        |
| C&C Investing LLC | Gregory Spiess AIA | C&C Investing LLC |

|                                              |                                                           |
|----------------------------------------------|-----------------------------------------------------------|
| Property Owner (If Different from Applicant) | Owner Mailing Address (If different than Project Address) |
| Carl Pearson                                 | 6 Peter Pond Court, East Providence RI 02914              |

|                |                            |
|----------------|----------------------------|
| Work Category: | Remodeling of Structure(s) |
|----------------|----------------------------|

#### Description of proposed work:

Conversion of a 1900 mixed-use structure - 2 story structure of 2,178 SF with 2 retail storefronts on ground floor and an apartment above- to a single family dwelling. Site area is approx. 2,522 SF on lots 99-101 on Bradford street. Work is to include interior alterations to create a single 2 story dwelling. Exterior improvements are as follows. Add an attic and pitched roof to existing flat roof structure; remove existing vinyl siding, aluminum windows and wooden storefront windows, and replace with new red cedar siding, historical replacement windows, and a new, single, front door; repair existing frontage eaves with new sheet metal flashing and wood soffits, and add a new pitched roof with architectural "slateline" asphaltic shingles. Proposed design is consistent with accepted Concept B at the Concept Review on May 7 and this final design package has addressed May 7th Commissioner comments on lowering the proposed roof slope and height and stepping the roof edge back from front eave/cornice to accentuate historical horizontal frontage.

#### Property History

#### Building Survey Data

|                                    |                     |
|------------------------------------|---------------------|
| RIHPHC ID #:                       | BRIS00275           |
| HISTORIC NAME:                     | Commercial Building |
| ARCH. STYLE:                       | Commercial          |
| ORIGINAL CONSTRUCTION DATE (est.): | 1900                |

ALTERATIONS TO MAJOR ARCH. SINCE 1978 (Height, Massing, Wall Covering, Trim, Windows, Porches)

Vinyl siding replaced wood siding.

Applicant’s Digital Signature  
Date: May 14, 2026





# CAI Property Card

Town of Bristol, RI

| GENERAL PROPERTY INFORMATION                                                                                                                                                                                                                                                                                          | BUILDING EXTERIOR                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOCATION:</b> 99 BRADFORD ST<br><b>ACRES:</b> 0.0524<br><b>PARCEL ID:</b> 013-0059-000<br><b>LAND USE CODE:</b> 04<br><b>CONDO COMPLEX:</b><br><b>OWNER:</b> C&C INVESTING GROUP LLC<br><b>CO - OWNER:</b><br><b>MAILING ADDRESS:</b> 9 PETER POND COURT<br><br><b>ZONING:</b> LB<br><b>PATRIOT ACCOUNT #:</b> 795 | <b>BUILDING STYLE:</b> Mixed Use<br><b>UNITS:</b> 2<br><b>YEAR BUILT:</b> 1900<br><b>FRAME:</b> Wood Frame<br><b>EXTERIOR WALL COVER:</b> Siding<br><b>ROOF STYLE:</b> Flat<br><b>ROOF COVER:</b> Asphalt Shin                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                       | BUILDING INTERIOR                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SALE INFORMATION</b><br><b>SALE DATE:</b> 10/10/2025<br><b>BOOK &amp; PAGE:</b> 2297-9<br><b>SALE PRICE:</b> 345,000<br><b>SALE DESCRIPTION:</b><br><b>SELLER:</b> FERRARA, PEGGY (50%)                                                                                                                            | <b>INTERIOR WALL:</b> Plaster<br><b>FLOOR COVER:</b><br><b>HEAT TYPE:</b> Steam w/Boil<br><b>FUEL TYPE:</b> Oil<br><b>PERCENT A/C:</b> False<br><b># OF ROOMS:</b> 6<br><b># OF BEDROOMS:</b> 2<br><b># OF FULL BATHS:</b> 2<br><b># OF HALF BATHS:</b> 0<br><b># OF ADDITIONAL FIXTURES:</b> 0<br><b># OF KITCHENS:</b> 2<br><b># OF FIREPLACES:</b> 0<br><b># OF METAL FIREPLACES:</b> 0<br><b># OF BASEMENT GARAGES:</b> 0 |
| PRINCIPAL BUILDING AREAS                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                           |
| <b>GROSS BUILDING AREA:</b> 3716<br><b>FINISHED BUILDING AREA:</b> 2522<br><b>BASEMENT AREA:</b> 1178<br><b># OF PRINCIPAL BUILDINGS:</b> 1                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ASSESSED VALUES                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>LAND:</b> \$96,800<br><b>YARD:</b> \$0<br><b>BUILDING:</b> \$173,700<br><b>TOTAL:</b> \$270,500                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SKETCH                                                                                                                                                                                                                                                                                                                | PHOTO                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                               |



www.cai-tech.com

This information is believed to be correct but is subject to change and is not warranted.

5/21/2026

Property Information - Bristol, RI

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Page 1 of 1

**190 High Street, Bristol, Rhode Island 02809**

Phone: (301) 396-9630

Fax: (401) 410-0079

May 13, 2026

**Bristol Historical District Commission**  
**Atten: Nicholas Toth**  
**235 High Street, 1<sup>st</sup> Floor**  
**Bristol RI 0289**

PROJECT  
DESCRIPTION:

PROPERTY ADDRESS:

**Project Narrative for HDC Submittal**  
**Single Family Residence conversion of existing former mixed-use**  
**(1) apartment over (2) retail spaces**  
**99 Bradford Street, Bristol Historic District.**

Historic District Commissioners:

JHL Tecture PC, (JHLT) with the new owner of 99 Bradford Street, Carl Pearson, has recently presented alternatives for conversion of a retail building into a single-family dwelling at the Bristol HDC Concept Review on May 7, 2026. This submittal incorporates, in a refined design, the comments and suggestions made at the Concept Review and is here summarized to enable an approved Certificate of Appropriateness.

In summary, proposed concept B was understood by us to gain a consensus from the Commissioners and counsel -especially in terms of maintaining the original retail footprint at the building base and entry alcove. This was proposed to be done in such a manner that the two former doorways were converted to a single front door leading to a new proposed living room and the two flanking former storefront windows would be converted into residential windows aligning and matching the upper windows as two over two divided lite windows. These windows would align with the upper windows on the outer edges and the width adjusted approx. 18 inches to be centered in the historical bays. This enlarged width is conventional in ground floor living room windows. The replacement windows are proposed to be by new Pella historical units of same dimension and style, yet without the former shutters and vinyl siding and with a wider trim common to the 1900s vintage and the adjacent homes on the block. The proposed design will feature cedar clapboard siding of similar dimension (4 inch vertically) exposure to the former vinyl siding and also similar to the adjacent homes..

The only one area where issues were raised by the commissioners was a desire to maintain more of the horizontal nature of the former structure, while understanding the need for a functioning attic and the residential character common in the neighborhood. The “outrigger” overhang eaves of the first and second floor, only found on the Bradford Street frontage, was to be repaired and maintained in similar dimension to the former structure. To accentuate this effect, the proposed pitched attic roof was to be set back from the front edge to help achieve this former horizontality and the roof pitch was lowered and set back from the front face an additional eighteen inches to recede from the frontage. We feel this meets the spirit of the conversation and still provides the function attic and residential character sought by the new owners.

The resulting design presented here in the attached drawings and details fulfills the needs of contemporary adaptive reuse of surplus retail space and provides viable new housing compatible to this historic neighborhood.

**Architecture • Historic Preservation • Urban Planning • Space Planning • Interior Design**  
*Hornell, New York • Bristol, Rhode Island*

### PROJECT UNDERSTANDING:

The context of the building situation is that the two-story structure was built in the 1900-1913 timeframe and had two retail units at the ground floor with an apartment above in a format popular to that era. It is on Lots 99 & 101 and is a 2,522 SF, 2-story structure on a 2,178 SF lot. For many years the ground floor commercial spaces housed shops and, notably, for many years, a local barber shop.

The Bradford Street façade features two large wood storefront windows cornice and sidelights flanking an indented, covered entry alcove for the two doorways to each establishment and its connected apartment above in a mixed-use duplex arrangement. A wooden cornice of approximately 18" depth projects over the retail windows (and property line, apparently) and is continuous across the entire front (south-facing) façade.

The upper apartment windows are conventional two over two, double hung units of approximately 32 x 54 inches, matching those of the neighborhood. There is a flat roof (rubber membrane) common to such retail buildings of that time. The structure was clad with a yellow vinyl siding in the late 1980s.

### CONCLUSION

The proposed renovation is to create a single-family residence, preserving almost all the framing and footprint of the original building. Interior partitions would be rearranged, including stairways, but the overall volume and footprint would be largely intact.

We feel this process has been fruitful and the design has evolved as we considered the many factors of historical forces and the adaptation to new land uses in the downtown.

We look forward to presenting these details at the June 4<sup>th</sup> meeting with the HDC and achieving the f go - ahead to construction in a timely manner to take advantage of the favorable building season ahead. We appreciate your cooperation and thoughtful deliberation.



Existing Structure Spring 2026

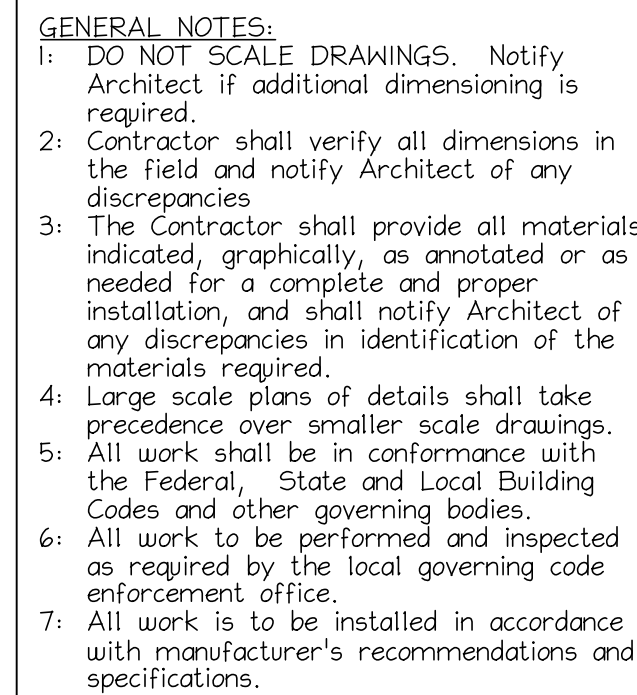


Proposed conversion

Concept B - refined per comments of May 7, 2026 Concept Review Meeting.





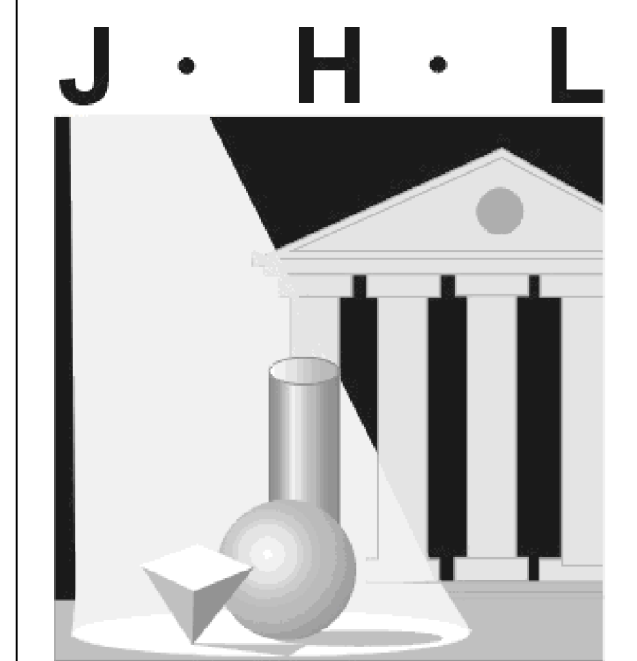


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| # | REVISION DESCRIPTION | DATE | BY |
|---|----------------------|------|----|
| 1 |                      |      |    |
| 2 |                      |      |    |
| 3 |                      |      |    |
| 4 |                      |      |    |
| 5 |                      |      |    |
| 6 |                      |      |    |
| 7 |                      |      |    |
| 8 |                      |      |    |
| 9 |                      |      |    |



**T E C T U R E**  
ARCHITECT • ENGINEER, P. C.

190 High Street • Bristol RI 02809  
401.396.9630 • Fax 401.410.0079

|                                  |
|----------------------------------|
| ISSUED FOR:<br>REVIEW (05-14-26) |
|----------------------------------|

PRELIMINARY ONLY  
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THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS FOR PROBABLE COST OF CONSTRUCTION ONLY AND IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

DRAWINGS  
FOR:  
99  
BRADFORD

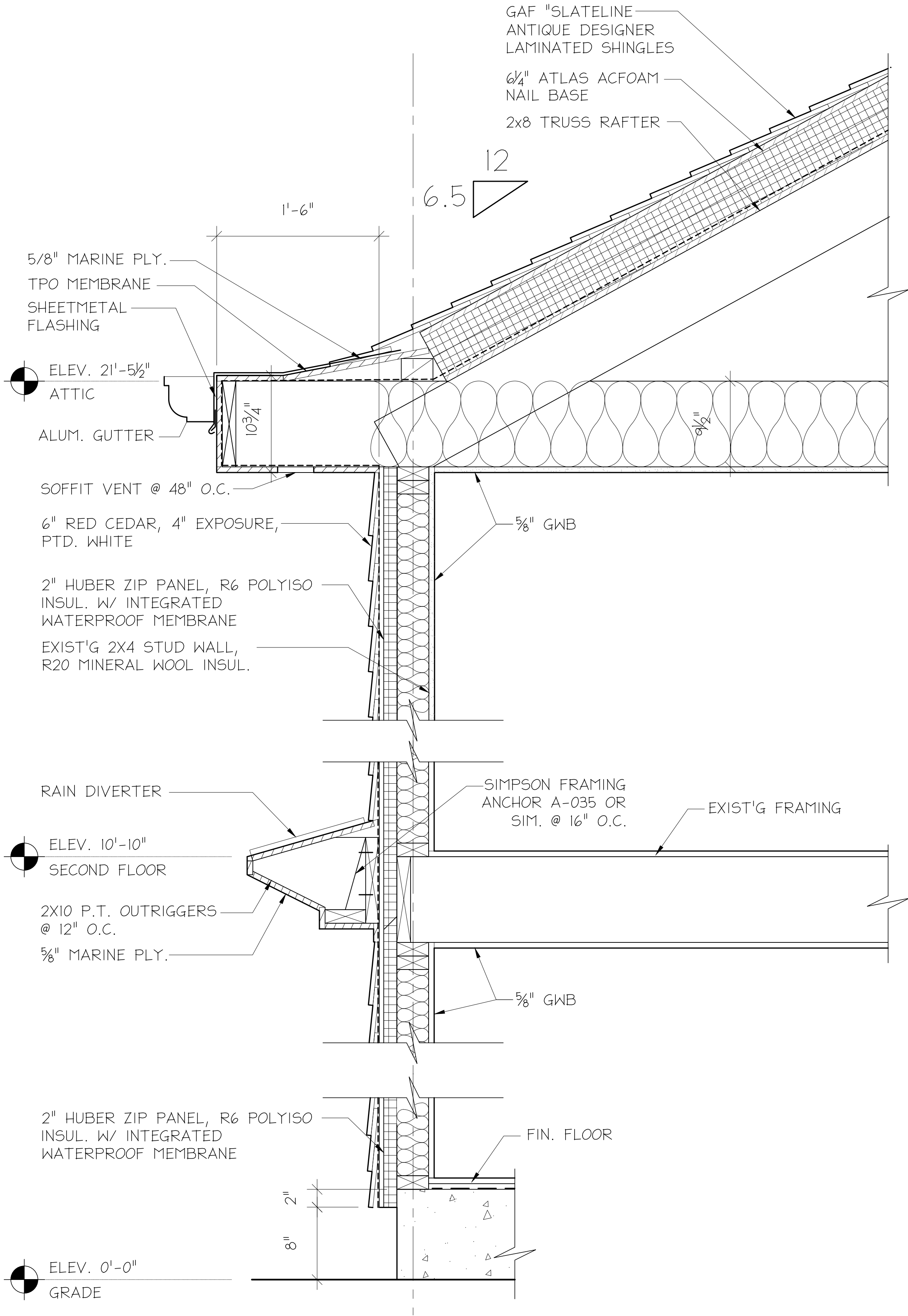
99 BRADFORD STREET  
BRISTOL RI, 02809

## BUILDING ELEVATIONS

|                                                   |                                 |
|---------------------------------------------------|---------------------------------|
| DATE: 05-13-26<br>SCALE: AS NOTED<br>DRAWN BY: AM | DRAWING NUMBER:<br><b>A2.01</b> |
| PROJECT NUMBER:<br><b>7517</b>                    |                                 |





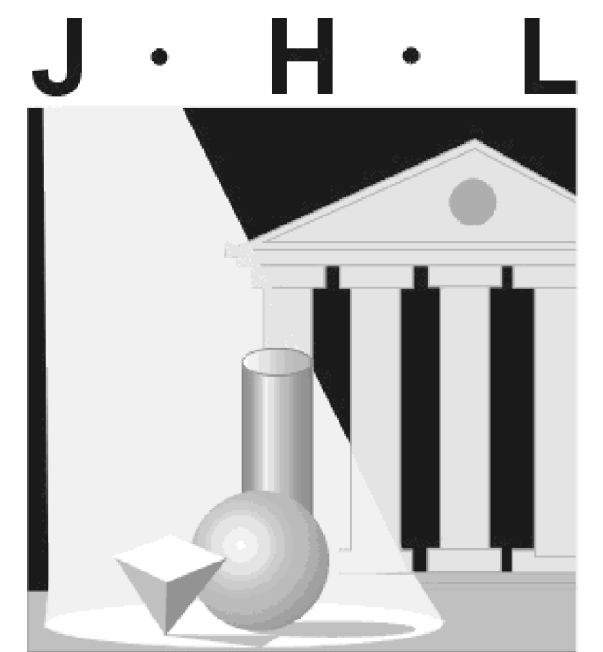


**BUILDING SECTION**  
SCALE: 1 1/2" = 1'-0"

- GENERAL NOTES:
- 1: DO NOT SCALE DRAWINGS. Notify Architect if additional dimensioning is required.
  - 2: Contractor shall verify all dimensions in the field and notify Architect of any discrepancies.
  - 3: The Contractor shall provide all materials indicated, graphically, as annotated or as needed for a complete and proper installation, and shall notify Architect of any discrepancies in identification of the materials required.
  - 4: Large scale plans of details shall take precedence over smaller scale drawings.
  - 5: All work shall be in conformance with the Federal, State and Local Building Codes and other governing bodies.
  - 6: All work to be performed and inspected as required by the local governing code enforcement office.
  - 7: All work is to be installed in accordance with manufacturer's recommendations and specifications.

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|    |    |    |    |    |    |   |  |  |  | BY                   |
|----|----|----|----|----|----|---|--|--|--|----------------------|
|    |    |    |    |    |    |   |  |  |  | DATE                 |
|    |    |    |    |    |    |   |  |  |  | REVISION DESCRIPTION |
| 6" | 5" | 4" | 3" | 2" | 1" | # |  |  |  |                      |



**TECTURE**  
ARCHITECT • ENGINEER, P. C.

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ISSUED FOR:  
REVIEW (05-14-26)

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**DRAWINGS**  
**FOR:**  
**99**  
**BRADFORD**

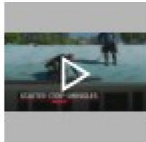
99 BRADFORD STREET  
BRISTOL RI, 02809

**BUILDING**  
**SECTIONS**

DATE: 05-12-26  
SCALE: AS NOTED  
DRAWN BY: AM  
PROJECT NUMBER:  
**7517**

DRAWING NUMBER:  
**A3.01**





SHOP MEMORIAL DAY SAVINGS >

GAF  
**Slateline Antique Slate Designer Laminated Architectural Shingles (33.3 sq. ft. per Bundle) (16-pieces)**

★★★★★ (40) Questions & Answers (25)

Covers 33.33 sq.ft.  
**\$75<sup>14</sup>** (\$2.25 /sq.ft.)

- Diamond cut granules add dimension and depth to shingles
- Micro weave core helps resist cracking and splitting
- UV blocker protects against damaging sunlight for durability
- [View More Details](#)

Color/Finish: **Antique Slate**



Pickup at [Somerset](#)

Delivering to [02726](#)

**Ship to Store** ✓

**Delivery**







Product Selection Guide

    Size and Performance Data..... LS-DH-2

    Features and Options ..... LS-DH-3

Combination Assemblies..... LS-DH-4

Glazing Performance

    Vent Units ..... LS-DH-6

    Fixed Units..... LS-DH-8

Grille Types..... LS-DH-10

Size Tables

    Double-Hung with Removable Grilles..... LS-DH-11

    Fixed and Transoms with Removable Grilles..... LS-DH-12

    Double-Hung with GBG's and SDL's ..... LS-DH-13

    Fixed and Transoms with GBG's and SDL's ..... LS-DH-14

    Replacement Sizes with Removable Grilles..... LS-DH-15

    Replacement Double-Hung with Removable Grilles..... LS-DH-16

    Replacement Sizes with Grilles-Between-the-Glass..... LS-DH-17

    Replacement Fixed with Removable Grilles ..... LS-DH-19

Special Sizes and Dimensions ..... LS-DH-21

Design Data

    Vent Units ..... LS-DH-22

    Fixed and Transoms ..... LS-DH-23

    Replacement Double-Hung Venting ..... LS-DH-24

    Replacement Fixed and Transoms ..... LS-DH-26

Detailed Product Description ..... LS-DH-27

Unit Sections ..... LS-DH-28

Document Navigation Tips:

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

Supporting documents for this product:

Test Reports:

[https://media.pella.com/professional/adm/CertificationReports/Test\\_Reports\\_LS-Dual.pdf](https://media.pella.com/professional/adm/CertificationReports/Test_Reports_LS-Dual.pdf)

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

[https://media.pella.com/professional/adm/Wood-CSI\\_Specs/08552.rtf](https://media.pella.com/professional/adm/Wood-CSI_Specs/08552.rtf)

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

[https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-DH\\_DPD.rtf](https://media.pella.com/professional/adm/Clad-Wood-LS/PellaLifestyleSrs-DH_DPD.rtf)

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

[https://media.pella.com/professional/adm/Clad-Wood-LS/LSCDHE\\_D.dwg](https://media.pella.com/professional/adm/Clad-Wood-LS/LSCDHE_D.dwg)

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

[https://media.pella.com/professional/adm/Clad-Wood-LS/LS-DH\\_XSEC\\_D.dwg](https://media.pella.com/professional/adm/Clad-Wood-LS/LS-DH_XSEC_D.dwg)

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

[https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Window-Double-Hung-Pella-Lifestyle\\_Series.zip](https://media.pella.com/professional/adm/RevitFiles/LS-Revit/Window-Double-Hung-Pella-Lifestyle_Series.zip)

Sketchup (requires appropriate software to read and use):

[https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP\\_LifestyleSeries\\_Double-Hung.zip](https://media.pella.com/professional/adm/Clad-Wood-LS/PellaSKP_LifestyleSeries_Double-Hung.zip)

Combination Recommendations:

[https://media.pella.com/professional/adm/Clad-Wood/D\\_Combinations.pdf](https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf)

Installation Details:

[https://media.pella.com/professional/adm/Clad-Wood/F\\_InstallationDetails.pdf](https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf)

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.

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# Lifestyle Series Double-Hung

Item 8.

## Size and Performance Data

|                                                                                                           | Dual-Pane                         |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>Sizes</b>                                                                                              |                                   |
| Standard double-hung vent/fixed sizes                                                                     | ●                                 |
| Transom sizes                                                                                             | ●                                 |
| Egress sizes                                                                                              | ●                                 |
| Special sizes available                                                                                   | ●                                 |
| <b>Performance <sup>1</sup></b>                                                                           |                                   |
| Meets or Exceeds AAMA/WDMA Ratings                                                                        | H-LC30-LC50<br>Hallmark Certified |
| Air Infiltration<br>(cfm/ft <sup>2</sup> of frame @ 1.57 psf wind pressure) <sub>2</sub>                  | 0.11                              |
| Water Resistance                                                                                          | 7.5 psf                           |
| Design Pressure                                                                                           | 30–50 psf                         |
| <b>Other Performance Criteria</b>                                                                         |                                   |
| Forced Entry Resistance Level<br>(Minimum Security Grade) <sub>3</sub>                                    | 10                                |
| Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) <sub>4</sub> | 40/40                             |

## Sound Transmission Class / Outdoor-Indoor Transmission Class

| Product                               | Frame Size Tested <sub>5</sub> | Glazing System            |                          |                          |                            | STC Rating | OITC Rating |
|---------------------------------------|--------------------------------|---------------------------|--------------------------|--------------------------|----------------------------|------------|-------------|
|                                       |                                | Overall Glazing Thickness | Exterior Glass Thickness | Interior Glass Thickness | Third Pane Thickness (HGP) |            |             |
| Pella Lifestyle Series<br>Double-Hung | 37" x 59"                      | 11/16"                    | 2.5mm                    | 2.5mm                    | —                          | 27         | 23          |
|                                       | 37" x 59"                      | 11/16"                    | 5mm                      | 3mm                      | —                          | 31         | 27          |

(—) = Not Available

(1) Maximum performance data 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                                             |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| <b>Glazing</b>                                                  |                                                                |
| <b>Glazing Type</b>                                             |                                                                |
| Dual-Pane Insulating Glass                                      | –                                                              |
| <b>Insulated Glass Options/Low-E Types</b>                      |                                                                |
| Advanced Low-E                                                  | SunDefense™ Low-E                                              |
|                                                                 | AdvancedComfort Low-E                                          |
|                                                                 | NaturalSun Low-E                                               |
| <b>Additional Glass Options</b>                                 |                                                                |
| Annealed Glass                                                  | STC Glazing Options                                            |
|                                                                 | Tempered Glass                                                 |
|                                                                 | Obscure Glass <sup>1</sup>                                     |
| <b>Gas Fill/High Altitude</b>                                   |                                                                |
| Argon                                                           | High altitude (Air-filled only)                                |
| <b>Exterior</b>                                                 |                                                                |
| EnduraClad® protective finish                                   | –                                                              |
| <b>Cladding Colors</b>                                          |                                                                |
| 10 Standard colors <sup>1</sup>                                 | –                                                              |
| <b>Interior<sup>1</sup></b>                                     |                                                                |
| Unfinished wood                                                 | Factory primed                                                 |
|                                                                 | Factory prefinished paint <sup>1</sup>                         |
|                                                                 | Factory prefinished stain <sup>1</sup>                         |
| <b>Wood Types</b>                                               |                                                                |
| Pine                                                            | –                                                              |
| <b>Hardware</b>                                                 |                                                                |
| <b>Finishes</b>                                                 |                                                                |
| Champagne, Matte Black, White or Brown                          | Oil Rubbed Bronze, Satin Nickel                                |
| <b>Sash Locks/Sash Lifts</b>                                    |                                                                |
| Cam-action lock                                                 | Sash lifts <sup>2</sup>                                        |
| <b>Tilt-Wash Cleaning</b>                                       |                                                                |
| Tilt to interior on both sashes                                 | –                                                              |
| <b>Grilles</b>                                                  |                                                                |
| <b>Room-side Removable Grilles</b>                              |                                                                |
| –                                                               | Traditional, Custom - Equally Divided                          |
| <b>Grilles-Between-the-Glass</b>                                |                                                                |
| –                                                               | Traditional, Prairie, Top Row, Cross, Custom - Equally Divided |
| <b>Simulated Divided Light with Optional Spacer<sup>3</sup></b> |                                                                |
| –                                                               | Traditional, Prairie, Top Row, Cross, Custom - Equally Divided |
| <b>Screens</b>                                                  |                                                                |
| –                                                               | Full-Size InView™ screens and Vivid View® screens              |

(–) = Not Available

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

(2) Sold separately for Pella® Lifestyle Series double-hung windows.

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

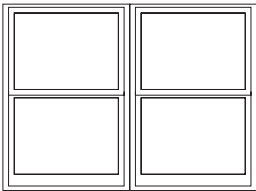


Combination Assemblies

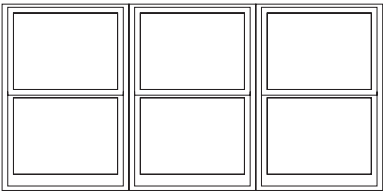
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullered together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Combinations section for typical combinations and requirements and limitations related to mulling various combinations.

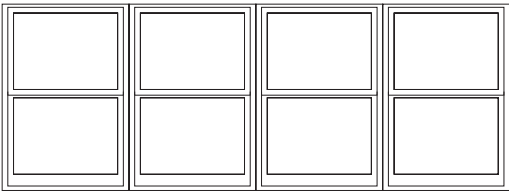
Contact your local Pella sales representative for more information.



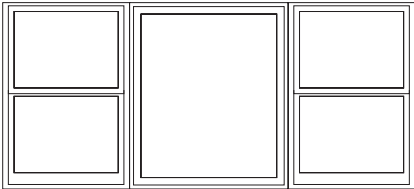
Two-Wide



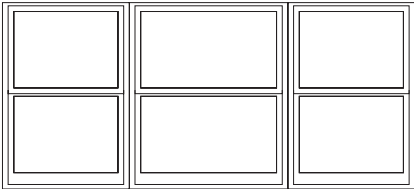
Three-Wide Equal



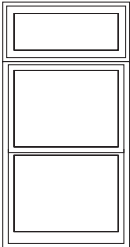
Four-Wide Equal



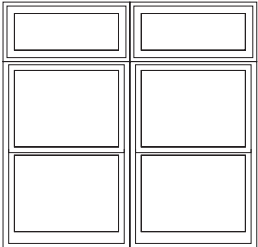
Center Fixed with Flankers



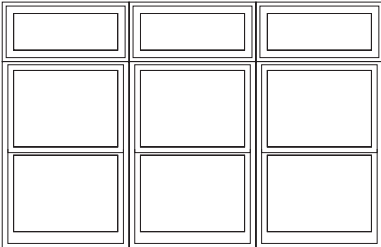
Three-Wide Unequal



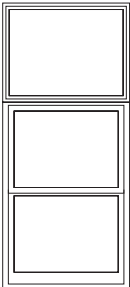
Transom over  
Single



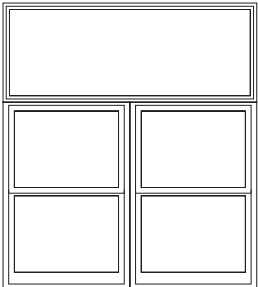
Two-Wide Transoms over  
Two-Wide



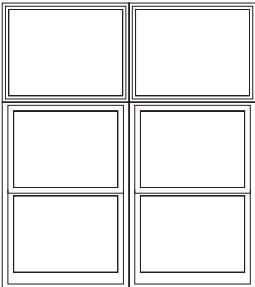
Three-Wide Transoms over  
Three-Wide



Clad Frame over  
Single



Single Clad Frame over  
Two-Wide



Two Wide Clad Frame over  
Two-Wide

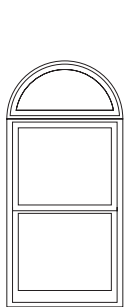


Combination Assemblies

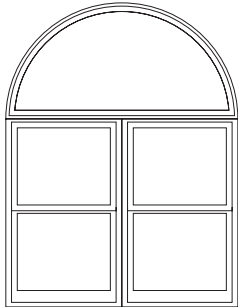
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are available factory-assembled combinations. Some units can be fixed or vent depending on availability. Refer to Combinations Section for typical combinations requirements, and limitations related to mulling various combinations.

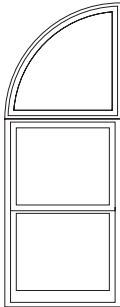
Contact your local Pella sales representative for more information.



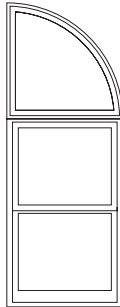
Half Circle over Single



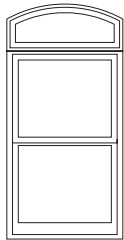
Half Circle over Two-Wide



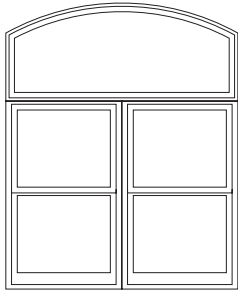
Left Quarter Circle over Single



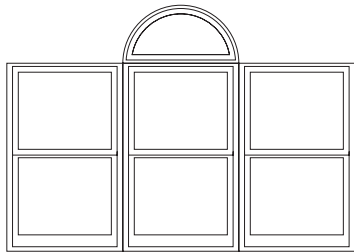
Right Quarter Circle over Single



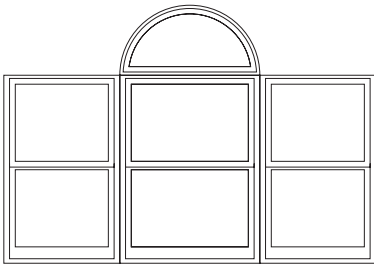
Arch Head over Single



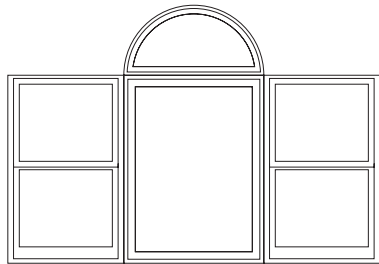
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers



Glazing Performance - Total Unit

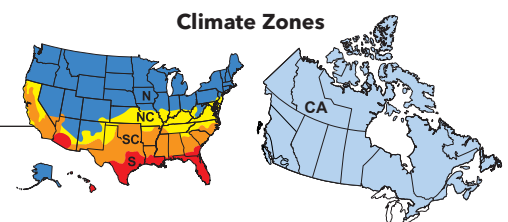
| Glazing Thickness | Type of Glazing                | NFRC Certified Product # | Glass (mm) |      | Gap Fill | Performance Values <sub>1</sub> |      |      |    | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown |    |    |   |                     |      |
|-------------------|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--------------------------------------------------------------------|----|----|---|---------------------|------|
|                   |                                |                          | Ext.       | Int. |          | U-Factor                        | SHGC | VLT  | CR | U. S.                                                              |    |    |   | Canada <sub>2</sub> |      |
|                   |                                |                          |            |      |          |                                 |      |      |    | Zone                                                               |    |    |   | ER                  | Zone |
|                   |                                |                          |            |      |          |                                 |      |      |    | Dual-Pane Vent                                                     |    |    |   |                     |      |
| 11/16"            | Advanced Low-E IG              | PEL-N-35-00362-00001     | 2.5        | 2.5  | Argon    | 0.30                            | 0.30 | 0.57 | 56 |                                                                    | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00363-00001     |            |      |          | 0.30                            | 0.27 | 0.50 | 56 |                                                                    | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00364-00001     |            |      |          | 0.30                            | 0.27 | 0.50 | 56 |                                                                    | NC |    |   |                     |      |
| 11/16"            | Advanced Low-E IG              | PEL-N-35-00365-00001     | 3          | 3    | Argon    | 0.30                            | 0.30 | 0.56 | 55 |                                                                    | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00366-00001     |            |      |          | 0.30                            | 0.27 | 0.50 | 55 |                                                                    | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00367-00001     |            |      |          | 0.30                            | 0.27 | 0.50 | 55 |                                                                    | NC |    |   |                     |      |
| 11/16"            | SunDefense™ Low-E IG           | PEL-N-35-00386-00001     | 2.5        | 2.5  | Argon    | 0.30                            | 0.22 | 0.52 | 57 |                                                                    | NC | SC | S |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00387-00001     |            |      |          | 0.30                            | 0.20 | 0.47 | 57 |                                                                    | NC | SC | S |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00388-00001     |            |      |          | 0.30                            | 0.20 | 0.47 | 57 |                                                                    | NC | SC | S |                     |      |
| 11/16"            | SunDefense Low-E IG            | PEL-N-35-00389-00001     | 3          | 3    | Argon    | 0.29                            | 0.22 | 0.52 | 56 |                                                                    | NC | SC | S |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00390-00001     |            |      |          | 0.29                            | 0.20 | 0.46 | 56 |                                                                    | NC | SC | S |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00391-00001     |            |      |          | 0.29                            | 0.20 | 0.46 | 56 |                                                                    | NC | SC | S |                     |      |
| 11/16"            | AdvancedComfort Low-E IG       | PEL-N-35-00374-00001     | 2.5        | 2.5  | Argon    | 0.26                            | 0.29 | 0.55 | 45 | N                                                                  | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00375-00001     |            |      |          | 0.26                            | 0.27 | 0.49 | 45 | N                                                                  | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00376-00001     |            |      |          | 0.26                            | 0.27 | 0.49 | 45 | N                                                                  | NC |    |   |                     |      |
| 11/16"            | AdvancedComfort Low-E IG       | PEL-N-35-00377-00001     | 3          | 3    | Argon    | 0.26                            | 0.29 | 0.55 | 44 | N                                                                  | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-35-00378-00001     |            |      |          | 0.26                            | 0.26 | 0.49 | 44 | N                                                                  | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00379-00001     |            |      |          | 0.26                            | 0.26 | 0.49 | 44 | N                                                                  | NC |    |   |                     |      |
| 11/16"            | NaturalSun Low-E IG            | PEL-N-35-00350-00001     | 2.5        | 2.5  | Argon    | 0.30                            | 0.56 | 0.64 | 56 | N                                                                  |    |    |   | 34                  | CA   |
|                   | with grilles-between-the-glass | PEL-N-35-00351-00001     |            |      |          | 0.30                            | 0.50 | 0.57 | 56 | N                                                                  |    |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00352-00001     |            |      |          | 0.30                            | 0.50 | 0.57 | 56 | N                                                                  |    |    |   |                     |      |
| 11/16"            | NaturalSun Low-E IG            | PEL-N-35-00353-00001     | 3          | 3    | Argon    | 0.30                            | 0.55 | 0.63 | 55 | N                                                                  |    |    |   | 34                  | CA   |
|                   | with grilles-between-the-glass | PEL-N-35-00354-00001     |            |      |          | 0.30                            | 0.49 | 0.57 | 55 | N                                                                  |    |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-35-00355-00001     |            |      |          | 0.30                            | 0.49 | 0.57 | 55 | 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 based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

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

See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.







## Glazing Performance - Total Unit

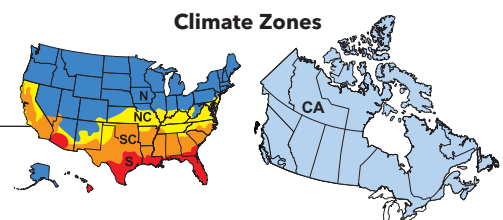
| Glazing Thickness                      | Type of Glazing                | NFRC Certified Product # | Glass (mm) |      | Gap Fill | Performance Values <sub>1</sub> |      |      |    | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown |    |    |                     |      |  |
|----------------------------------------|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--------------------------------------------------------------------|----|----|---------------------|------|--|
|                                        |                                |                          | Ext.       | Int. |          | U-Factor                        | SHGC | VLT  | CR | U. S.                                                              |    |    | Canada <sub>2</sub> |      |  |
|                                        |                                |                          |            |      |          |                                 |      |      |    | Zone                                                               |    |    | ER                  | Zone |  |
| Dual-Pane Vent - High Altitude Glazing |                                |                          |            |      |          |                                 |      |      |    | N                                                                  | NC | SC | S                   | CA   |  |
| 11/16"                                 | Advanced Low-E IG              | PEL-N-35-00368-00001     | 2.5        | 2.5  | Air      | 0.34                            | 0.30 | 0.57 | 53 |                                                                    |    |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00369-00001     |            |      |          | 0.34                            | 0.27 | 0.50 | 53 |                                                                    |    |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00370-00001     |            |      |          | 0.34                            | 0.27 | 0.50 | 53 |                                                                    |    |    |                     |      |  |
| 11/16"                                 | Advanced Low-E IG              | PEL-N-35-00371-00001     | 3          | 3    | Air      | 0.34                            | 0.30 | 0.56 | 52 |                                                                    |    |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00372-00001     |            |      |          | 0.34                            | 0.27 | 0.50 | 52 |                                                                    |    |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00373-00001     |            |      |          | 0.34                            | 0.27 | 0.50 | 52 |                                                                    |    |    |                     |      |  |
| 11/16"                                 | SunDefense™ Low-E IG           | PEL-N-35-00392-00001     | 2.5        | 2.5  | Air      | 0.33                            | 0.23 | 0.52 | 53 |                                                                    |    |    | S                   |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00393-00001     |            |      |          | 0.33                            | 0.20 | 0.47 | 53 |                                                                    |    |    | S                   |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00394-00001     |            |      |          | 0.33                            | 0.20 | 0.47 | 53 |                                                                    |    |    | S                   |      |  |
| 11/16"                                 | SunDefense Low-E IG            | PEL-N-35-00395-00001     | 3          | 3    | Air      | 0.33                            | 0.23 | 0.52 | 52 |                                                                    |    |    | S                   |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00396-00001     |            |      |          | 0.33                            | 0.21 | 0.46 | 52 |                                                                    |    |    | S                   |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00397-00001     |            |      |          | 0.33                            | 0.21 | 0.46 | 52 |                                                                    |    |    | S                   |      |  |
| 11/16"                                 | AdvancedComfort Low-E IG       | PEL-N-35-00380-00001     | 2.5        | 2.5  | Air      | 0.28                            | 0.29 | 0.55 | 42 |                                                                    | NC |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00381-00001     |            |      |          | 0.28                            | 0.27 | 0.49 | 42 |                                                                    | NC |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00382-00001     |            |      |          | 0.28                            | 0.27 | 0.49 | 42 |                                                                    | NC |    |                     |      |  |
| 11/16"                                 | AdvancedComfort Low-E IG       | PEL-N-35-00383-00001     | 3          | 3    | Air      | 0.29                            | 0.29 | 0.55 | 41 |                                                                    | NC |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00384-00001     |            |      |          | 0.29                            | 0.27 | 0.49 | 41 |                                                                    | NC |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00385-00001     |            |      |          | 0.29                            | 0.27 | 0.49 | 41 |                                                                    | NC |    |                     |      |  |
| 11/16"                                 | NaturalSun Low-E IG            | PEL-N-35-00356-00001     | 2.5        | 2.5  | Air      | 0.34                            | 0.56 | 0.64 | 53 |                                                                    |    |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00357-00001     |            |      |          | 0.34                            | 0.50 | 0.57 | 53 |                                                                    |    |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00358-00001     |            |      |          | 0.34                            | 0.50 | 0.57 | 53 |                                                                    |    |    |                     |      |  |
| 11/16"                                 | NaturalSun Low-E IG            | PEL-N-35-00359-00001     | 3          | 3    | Air      | 0.34                            | 0.55 | 0.63 | 52 |                                                                    |    |    |                     |      |  |
|                                        | with grilles-between-the-glass | PEL-N-35-00360-00001     |            |      |          | 0.34                            | 0.49 | 0.57 | 52 |                                                                    |    |    |                     |      |  |
|                                        | with Simulated Divided Light   | PEL-N-35-00361-00001     |            |      |          | 0.34                            | 0.49 | 0.57 | 52 |                                                                    |    |    |                     |      |  |

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# Lifestyle Series Double-Hung

Item 8.

## Glazing Performance - Total Unit

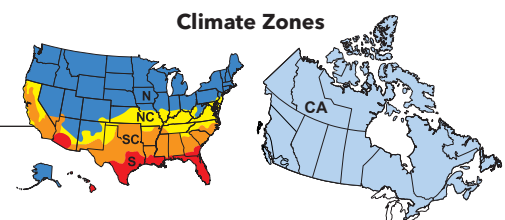
| Glazing Thickness | Type of Glazing                | NFRC Certified Product # | Glass (mm) |      | Gap Fill | Performance Values <sub>1</sub> |      |      |    | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown |    |    |   |                     |      |
|-------------------|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--------------------------------------------------------------------|----|----|---|---------------------|------|
|                   |                                |                          | Ext.       | Int. |          | U-Factor                        | SHGC | VLT  | CR | U. S.                                                              |    |    |   | Canada <sub>2</sub> |      |
|                   |                                |                          |            |      |          |                                 |      |      |    | Zone                                                               |    |    |   | ER                  | Zone |
| Dual-Pane Fixed   |                                |                          |            |      |          |                                 |      |      |    | N                                                                  | NC | SC | S | CA                  |      |
| 11/16"            | Advanced LowE IG               | PEL-N-229-00861-00001    | 2.5        | 2.5  | argon    | 0.27                            | 0.31 | 0.58 | 58 |                                                                    | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-00862-00001    |            |      |          | 0.27                            | 0.28 | 0.52 | 58 |                                                                    | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00863-00001    |            |      |          | 0.28                            | 0.28 | 0.52 | 58 |                                                                    | NC |    |   |                     |      |
| 11/16"            | Advanced LowE IG               | PEL-N-229-00949-00001    | 3          | 3    | argon    | 0.27                            | 0.31 | 0.58 | 57 |                                                                    | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-00950-00001    |            |      |          | 0.27                            | 0.28 | 0.51 | 57 |                                                                    | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00951-00001    |            |      |          | 0.28                            | 0.28 | 0.51 | 57 |                                                                    | NC |    |   |                     |      |
| 11/16"            | Advanced LowE IG               | PEL-N-229-00965-00001    | 4          | 4    | argon    | 0.28                            | 0.30 | 0.57 | 58 |                                                                    | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-00966-00001    |            |      |          | 0.29                            | 0.28 | 0.51 | 58 |                                                                    | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00967-00001    |            |      |          | 0.29                            | 0.28 | 0.51 | 58 |                                                                    | NC |    |   |                     |      |
| 11/16"            | SunDefense™ Low-E IG           | PEL-N-229-01045-00001    | 2.5        | 2.5  | argon    | 0.27                            | 0.23 | 0.54 | 58 | N                                                                  | NC | SC | S |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-01046-00001    |            |      |          | 0.27                            | 0.21 | 0.48 | 58 | N                                                                  | NC | SC | S |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-01047-00001    |            |      |          | 0.28                            | 0.28 | 0.51 | 58 |                                                                    | NC |    |   |                     |      |
| 11/16"            | SunDefense Low-E IG            | PEL-N-229-01053-00001    | 3          | 3    | argon    | 0.27                            | 0.23 | 0.53 | 57 | N                                                                  | NC | SC | S |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-01054-00001    |            |      |          | 0.27                            | 0.21 | 0.48 | 57 | N                                                                  | NC | SC | S |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-01055-00001    |            |      |          | 0.28                            | 0.21 | 0.48 | 57 |                                                                    | NC | SC | S |                     |      |
| 11/16"            | SunDefense Low-E IG            | PEL-N-229-01061-00001    | 4          | 4    | argon    | 0.28                            | 0.23 | 0.53 | 55 |                                                                    | NC | SC | S |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-01062-00001    |            |      |          | 0.29                            | 0.21 | 0.47 | 55 |                                                                    | NC | SC | S |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-01063-00001    |            |      |          | 0.29                            | 0.21 | 0.47 | 55 |                                                                    | NC | SC | S |                     |      |
| 11/16"            | AdvancedComfort Low-E IG       | PEL-N-229-00997-00001    | 2.5        | 2.5  | argon    | 0.23                            | 0.30 | 0.57 | 46 | N                                                                  | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-00998-00001    |            |      |          | 0.23                            | 0.27 | 0.51 | 46 | N                                                                  | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00999-00001    |            |      |          | 0.24                            | 0.27 | 0.51 | 46 | N                                                                  | NC |    |   |                     |      |
| 11/16"            | AdvancedComfort Low-E IG       | PEL-N-229-01005-00001    | 3          | 3    | argon    | 0.23                            | 0.30 | 0.56 | 45 | N                                                                  | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-01006-00001    |            |      |          | 0.23                            | 0.27 | 0.50 | 45 | N                                                                  | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-01007-00001    |            |      |          | 0.24                            | 0.27 | 0.50 | 45 | N                                                                  | NC |    |   |                     |      |
| 11/16"            | AdvancedComfort Low-E IG       | PEL-N-229-01013-00001    | 4          | 4    | argon    | 0.24                            | 0.30 | 0.55 | 43 | N                                                                  | NC |    |   |                     |      |
|                   | with grilles-between-the-glass | PEL-N-229-01014-00001    |            |      |          | 0.25                            | 0.27 | 0.50 | 43 | N                                                                  | NC |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-01015-00001    |            |      |          | 0.25                            | 0.27 | 0.50 | 43 | N                                                                  | NC |    |   |                     |      |
| 11/16"            | NaturalSun LowE IG             | PEL-N-229-00901-00001    | 2.5        | 2.5  | argon    | 0.28                            | 0.58 | 0.66 | 57 |                                                                    |    |    |   | 37                  | CA   |
|                   | with grilles-between-the-glass | PEL-N-229-00902-00001    |            |      |          | 0.28                            | 0.52 | 0.59 | 57 |                                                                    |    |    |   | 34                  | CA   |
|                   | with Simulated Divided Light   | PEL-N-229-00903-00001    |            |      |          | 0.29                            | 0.52 | 0.59 | 57 |                                                                    |    |    |   | 34                  | CA   |
| 11/16"            | NaturalSun LowE IG             | PEL-N-229-00909-00001    | 3          | 3    | argon    | 0.28                            | 0.57 | 0.65 | 56 |                                                                    |    |    |   | 37                  | CA   |
|                   | with grilles-between-the-glass | PEL-N-229-00910-00001    |            |      |          | 0.28                            | 0.51 | 0.58 | 56 |                                                                    |    |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00911-00001    |            |      |          | 0.29                            | 0.51 | 0.58 | 56 |                                                                    |    |    |   |                     |      |
| 11/16"            | NaturalSun LowE IG             | PEL-N-229-00917-00001    | 4          | 4    | argon    | 0.29                            | 0.55 | 0.65 | 55 |                                                                    |    |    |   | 35                  | CA   |
|                   | with grilles-between-the-glass | PEL-N-229-00918-00001    |            |      |          | 0.30                            | 0.50 | 0.58 | 55 |                                                                    |    |    |   |                     |      |
|                   | with Simulated Divided Light   | PEL-N-229-00919-00001    |            |      |          | 0.30                            | 0.50 | 0.58 | 55 |                                                                    |    |    |   |                     |      |

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 based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

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

See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.





# Lifestyle Series Double-Hung

Item 8.

## Glazing Performance - Total Unit

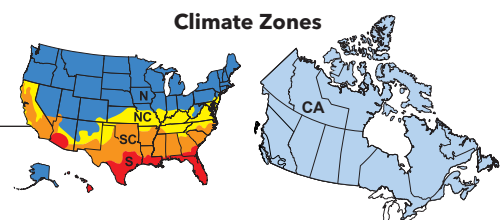
| Glazing Thickness                       | Type of Glazing                | NFRC Certified Product # | Glass (mm) |      | Gap Fill | Performance Values <sup>1</sup> |      |      |    | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown |    |    |    |                     |      |  |
|-----------------------------------------|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--------------------------------------------------------------------|----|----|----|---------------------|------|--|
|                                         |                                |                          | Ext.       | Int. |          | U-Factor                        | SHGC | VLT  | CR | U. S.                                                              |    |    |    | Canada <sup>2</sup> |      |  |
|                                         |                                |                          |            |      |          |                                 |      |      |    | Zone                                                               |    |    |    | ER                  | Zone |  |
| Dual-Pane Fixed - High Altitude Glazing |                                |                          |            |      |          |                                 |      |      |    |                                                                    | N  | NC | SC | S                   | CA   |  |
| 11/16"                                  | Advanced LowE IG               | PEL-N-229-00857-00001    | 2.5        | 2.5  | air      | 0.31                            | 0.31 | 0.58 | 54 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00858-00001    |            |      |          | 0.31                            | 0.28 | 0.52 | 54 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00859-00001    |            |      |          | 0.32                            | 0.28 | 0.52 | 54 |                                                                    |    |    |    |                     |      |  |
| 11/16"                                  | Advanced LowE IG               | PEL-N-229-00945-00001    | 3          | 3    | air      | 0.31                            | 0.31 | 0.58 | 53 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00946-00001    |            |      |          | 0.31                            | 0.28 | 0.51 | 53 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00947-00001    |            |      |          | 0.32                            | 0.28 | 0.51 | 53 |                                                                    |    |    |    |                     |      |  |
| 11/16"                                  | Advanced LowE IG               | PEL-N-229-00961-00001    | 4          | 4    | air      | 0.33                            | 0.31 | 0.57 | 51 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00962-00001    |            |      |          | 0.34                            | 0.28 | 0.51 | 51 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00963-00001    |            |      |          | 0.34                            | 0.28 | 0.51 | 51 |                                                                    |    |    |    |                     |      |  |
| 11/16"                                  | SunDefense™ Low-E IG           | PEL-N-229-01041-00001    | 2.5        | 2.5  | air      | 0.31                            | 0.23 | 0.54 | 55 |                                                                    |    |    |    | S                   |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-01042-00001    |            |      |          | 0.31                            | 0.21 | 0.48 | 55 |                                                                    |    |    |    | S                   |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-01043-00001    |            |      |          | 0.28                            | 0.21 | 0.48 | 53 |                                                                    | NC | SC |    | S                   |      |  |
| 11/16"                                  | SunDefense Low-E IG            | PEL-N-229-01049-00001    | 3          | 3    | air      | 0.31                            | 0.23 | 0.53 | 54 |                                                                    |    |    |    | S                   |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-01050-00001    |            |      |          | 0.31                            | 0.21 | 0.48 | 54 |                                                                    |    |    |    | S                   |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-01051-00001    |            |      |          | 0.32                            | 0.21 | 0.48 | 54 |                                                                    |    |    |    | S                   |      |  |
| 11/16"                                  | SunDefense Low-E IG            | PEL-N-229-01057-00001    | 4          | 4    | air      | 0.32                            | 0.23 | 0.53 | 52 |                                                                    |    |    |    | S                   |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-01058-00001    |            |      |          | 0.34                            | 0.21 | 0.47 | 52 |                                                                    |    |    |    | S                   |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-01059-00001    |            |      |          | 0.34                            | 0.21 | 0.47 | 52 |                                                                    |    |    |    | S                   |      |  |
| 11/16"                                  | AdvancedComfort Low-E IG       | PEL-N-229-00993-00001    | 2.5        | 2.5  | air      | 0.26                            | 0.30 | 0.57 | 42 | N                                                                  | NC |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00994-00001    |            |      |          | 0.26                            | 0.27 | 0.51 | 42 | N                                                                  | NC |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00995-00001    |            |      |          | 0.26                            | 0.27 | 0.51 | 42 | N                                                                  | NC |    |    |                     |      |  |
| 11/16"                                  | AdvancedComfort Low-E IG       | PEL-N-229-01001-00001    | 3          | 3    | air      | 0.26                            | 0.30 | 0.56 | 41 | N                                                                  | NC |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-01002-00001    |            |      |          | 0.26                            | 0.27 | 0.50 | 41 | N                                                                  | NC |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-01003-00001    |            |      |          | 0.27                            | 0.27 | 0.50 | 41 | N                                                                  | NC |    |    |                     |      |  |
| 11/16"                                  | AdvancedComfort Low-E IG       | PEL-N-229-01009-00001    | 4          | 4    | air      | 0.27                            | 0.30 | 0.55 | 39 |                                                                    | NC |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-01010-00001    |            |      |          | 0.28                            | 0.27 | 0.50 | 39 |                                                                    | NC |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-01011-00001    |            |      |          | 0.28                            | 0.27 | 0.50 | 39 |                                                                    | NC |    |    |                     |      |  |
| 11/16"                                  | NaturalSun LowE IG             | PEL-N-229-00897-00001    | 2.5        | 2.5  | air      | 0.32                            | 0.57 | 0.66 | 54 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00898-00001    |            |      |          | 0.32                            | 0.52 | 0.59 | 54 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00899-00001    |            |      |          | 0.33                            | 0.52 | 0.59 | 54 |                                                                    |    |    |    |                     |      |  |
| 11/16"                                  | NaturalSun LowE IG             | PEL-N-229-00905-00001    | 3          | 3    | air      | 0.32                            | 0.56 | 0.65 | 53 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00906-00001    |            |      |          | 0.32                            | 0.51 | 0.58 | 53 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00907-00001    |            |      |          | 0.33                            | 0.51 | 0.58 | 53 |                                                                    |    |    |    |                     |      |  |
| 11/16"                                  | NaturalSun LowE IG             | PEL-N-229-00913-00001    | 4          | 4    | air      | 0.34                            | 0.55 | 0.65 | 51 |                                                                    |    |    |    |                     |      |  |
|                                         | with grilles-between-the-glass | PEL-N-229-00914-00001    |            |      |          | 0.35                            | 0.49 | 0.58 | 51 |                                                                    |    |    |    |                     |      |  |
|                                         | with Simulated Divided Light   | PEL-N-229-00915-00001    |            |      |          | 0.35                            | 0.49 | 0.58 | 51 |                                                                    |    |    |    |                     |      |  |

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 based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

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

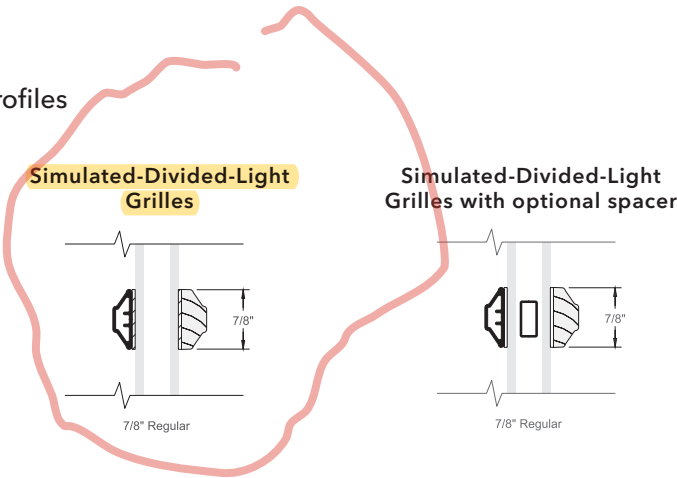
See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.



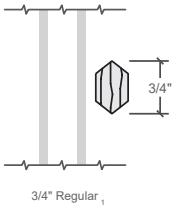


Grilles

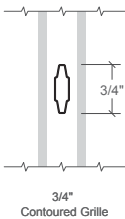
Grille Profiles



Roomside Removable Grilles

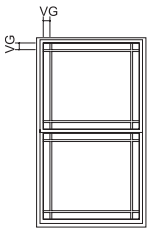


Grilles-Between-the-Glass

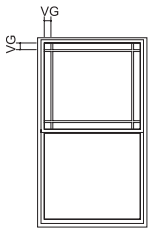


Grille Patterns

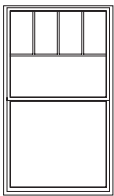
Grilles-Between-the-Glass and Simulated-Divided-Light Grilles



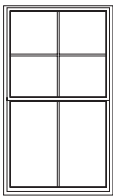
9-Lite Prairie



9-Lite Prairie  
Top Sash Only



Top Row



Cross

- 9-Lite 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.

VG = Visible Glass  
(1) Grilles are available in traditional patterns only.  
Lite dimensions noted can vary.  
For size and pattern availability contact your local Pella sales representative.



Size Tables - Double-Hung with Removable Grilles

Vent Units

|                    | (552)<br>(533)                                                                              | (654)<br>(635)                                                                                             | (755)<br>(737)                                                                                             | (857)<br>(838)                                                                                            | (959)<br>(940)                                                                                | (1 060)<br>(1 041)                                                                            |
|--------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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"                                                                                     |
| Frame              | 1' 9"                                                                                       | 2' 1"                                                                                                      | 2' 5"                                                                                                      | 2' 9"                                                                                                     | 3' 1"                                                                                         | 3' 5"                                                                                         |
| (908)<br>(889)     | <br>2135   | <br>2535                  | <br>2935                  | <br>3335                 | <br>3735     | <br>4135     |
| (1 060)<br>(1 041) | <br>2141   | <br>2541                  | <br>2941                  | <br>3341                 | <br>3741     | <br>4141     |
| (1 213)<br>(1 194) | <br>2147   | <br>2547                  | <br>2947                  | <br>3347                 | <br>3747     | <br>4147     |
| (1 365)<br>(1 346) | <br>2153   | <br>2553                  | <br>2953                  | <br>3353                 | <br>3753     | <br>4153     |
| (1 467)<br>(1 448) | <br>2157   | <br>2557                  | <br>2957                  | <br>3357 E <sub>1</sub>  | <br>3757 E   | <br>4157 E   |
| (1 517)<br>(1 499) | <br>2159  | <br>2559                 | <br>2959                 | <br>3359 E <sub>1</sub> | <br>3759 E  | <br>4159 E  |
| (1 670)<br>(1 651) | <br>2165 | <br>2565                | <br>2965 E <sub>1</sub> | <br>3365 E             | <br>3765 E | <br>4165 E |
| (1 822)<br>(1 803) | <br>2171 | <br>2571                | <br>2971 E              | <br>3371 E             | <br>3771 E | <br>4171 E |
| (1 975)<br>(1 956) | <br>2177 | <br>2577 E <sub>1</sub> | <br>2977 E              | <br>3377 E             | <br>3777 E | <br>4177 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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

Traditional grille patterns shown.

Grille patterns shown will align with grilles-between-the-glass on companion units.





Size Tables - Fixed and Transoms with Removable Grilles

Transoms

|                |           | (552)<br>(533)                                                                         | (654)<br>(635)                                                                         | (755)<br>(737)                                                                         | (857)<br>(838)                                                                         | (959)<br>(940)                                                                         | (1 060)<br>(1 041)                                                                     |
|----------------|-----------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 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"                                                                              |
| Frame          |           | 1' 9"                                                                                  | 2' 1"                                                                                  | 2' 5"                                                                                  | 2' 9"                                                                                  | 3' 1"                                                                                  | 3' 5"                                                                                  |
| (374)<br>(356) | 1' 2"     |  2114 |  2514 |  2914 |  3314 |  3714 |  4114 |
|                | 1' 2 3/4" |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|                | 1' 5"     |  2117 |  2517 |  2917 |  3317 |  3717 |  4117 |
|                | 1' 5 3/4" |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| (552)<br>(533) | 1' 9"     |  2121 |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| (654)<br>(635) | 1' 9 3/4" |  2125 |  2525 |  2925 |  3325 |  3725 |  4125 |
| (756)<br>(737) | 2' 1 3/4" |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|                | 2' 1"     |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|                | 2' 5 3/4" |                                                                                        |                                                                                        |  2929 |                                                                                        |                                                                                        |                                                                                        |
|                | 2' 5"     |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |

Fixed Units

|                    |            | (1 060)<br>(1 041)                                                                       | (1 213)<br>(1 194)                                                                       | (1 365)<br>(1 346)                                                                       | (1 517)<br>(1 499)                                                                       |                    |            | (1 060)<br>(1 041)                                                                        | (1 213)<br>(1 194)                                                                         | (1 365)<br>(1 346)                                                                         | (1 517)<br>(1 499)                                                                         |
|--------------------|------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Opening            |            | 3' 5 3/4"                                                                                | 3' 11 3/4"                                                                               | 4' 5 3/4"                                                                                | 4' 11 3/4"                                                                               | 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"                                                                                   | Frame              |            | 3' 5"                                                                                     | 3' 11"                                                                                     | 4' 5"                                                                                      | 4' 11"                                                                                     |
| (908)<br>(889)     | 2' 11 3/4" |  4135 |  4735 |  5335 |  5935 | (1 517)<br>(1 499) | 4' 11 3/4" |  4159 |  4759 |  5359 |  5959 |
|                    | 2' 11"     |                                                                                          |                                                                                          |                                                                                          |                                                                                          |                    | 4' 11"     |                                                                                           |                                                                                            |                                                                                            |                                                                                            |
|                    | 3' 5 3/4"  |  4141 |  4741 |  5341 |  5941 |                    | 3' 5"      |  4165 |  4765 |  5365 |  5965 |
|                    | 3' 11 3/4" |  4147 |  4747 |  5347 |  5947 |                    | 3' 11"     |  4171 |  4771 |  5371 |  5971 |
| (1 060)<br>(1 041) | 3' 5"      |                                                                                          |                                                                                          |                                                                                          |                                                                                          | (1 670)<br>(1 651) | 5' 5 3/4"  |                                                                                           |                                                                                            |                                                                                            |                                                                                            |
| (1 213)<br>(1 194) | 3' 11"     |                                                                                          |                                                                                          |                                                                                          |                                                                                          |                    | 5' 5"      |                                                                                           |                                                                                            |                                                                                            |                                                                                            |
| (1 365)<br>(1 346) | 4' 5 3/4"  |  4153 |  4753 |  5353 |  5953 | (1 822)<br>(1 803) | 5' 11 3/4" |  4171 |  4771 |  5371 |  5971 |
| (1 467)<br>(1 448) | 4' 9 3/4"  |  4157 |  4757 |  5357 |  5957 |                    | 5' 11"     |                                                                                           |                                                                                            |                                                                                            |                                                                                            |
|                    | 4' 9"      |                                                                                          |                                                                                          |                                                                                          |                                                                                          |                    |            |                                                                                           |                                                                                            |                                                                                            |                                                                                            |

Not to scale.  
Traditional grille patterns shown.  
Grille patterns shown will align with grilles-between-the-glass on companion units.



## Lifestyle Series Double-Hung

Item 8.

### Size Tables - Double-Hung with GBG's and SDL's<sup>1</sup>

#### Vent Units

|                    | (552)<br>(533)                                                                              | (654)<br>(635)                                                                                             | (755)<br>(737)                                                                                             | (857)<br>(838)                                                                                             | (959)<br>(940)                                                                                | (1 060)<br>(1 041)                                                                            |
|--------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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"                                                                                     |
| Frame              | 1' 9"                                                                                       | 2' 1"                                                                                                      | 2' 5"                                                                                                      | 2' 9"                                                                                                      | 3' 1"                                                                                         | 3' 5"                                                                                         |
| (908)<br>(889)     | <br>2135   | <br>2535                  | <br>2935                  | <br>3335                  | <br>3735     | <br>4135     |
| (1 060)<br>(1 041) | <br>2141   | <br>2541                  | <br>2941                  | <br>3341                  | <br>3741     | <br>4141     |
| (1 213)<br>(1 194) | <br>2147   | <br>2547                  | <br>2947                  | <br>3347                  | <br>3747     | <br>4147     |
| (1 365)<br>(1 346) | <br>2153   | <br>2553                  | <br>2953                  | <br>3353                  | <br>3753     | <br>4153     |
| (1 467)<br>(1 448) | <br>2157   | <br>2557                  | <br>2957                  | <br>3357 E <sub>1</sub>   | <br>3757 E   | <br>4157 E   |
| (1 517)<br>(1 499) | <br>2159 | <br>2559                | <br>2959                | <br>3359 E <sub>1</sub> | <br>3759 E | <br>4159 E |
| (1 670)<br>(1 651) | <br>2165 | <br>2565                | <br>2965 E <sub>1</sub> | <br>3365 E              | <br>3765 E | <br>4165 E |
| (1 822)<br>(1 803) | <br>2171 | <br>2571                | <br>2971 E              | <br>3371 E              | <br>3771 E | <br>4171 E |
| (1 975)<br>(1 956) | <br>2177 | <br>2577 E <sub>1</sub> | <br>2977 E              | <br>3377 E              | <br>3777 E | <br>4177 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 ft<sup>2</sup>.

E<sub>1</sub> = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

(1) Simulated divided lights are available in traditional patterns only.

Traditional grille patterns shown.

Grille patterns shown will align with grilles-between-the-glass on companion units.



Size Tables - Fixed and Transoms with GBG's and SDL's

Transoms

|         | (552)<br>(533)                                                                         | (654)<br>(635)                                                                         | (755)<br>(737)                                                                         | (857)<br>(838)                                                                         | (959)<br>(940)                                                                         | (1 060)<br>(1 041)                                                                     |
|---------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 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"                                                                              |
| Frame   | 1' 9"                                                                                  | 2' 1"                                                                                  | 2' 5"                                                                                  | 2' 9"                                                                                  | 3' 1"                                                                                  | 3' 5"                                                                                  |
| 1' 2"   |  2114 |  2514 |  2914 |  3314 |  3714 |  4114 |
| 1' 5"   |  2117 |  2517 |  2917 |  3317 |  3717 |  4117 |
| 1' 9"   |  2121 |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| 2' 1"   |  2125 |  2525 |  2925 |  3325 |  3725 |  4125 |
| 2' 5"   |                                                                                        |                                                                                        |  2929 |                                                                                        |                                                                                        |                                                                                        |

Fixed Units

|            | (1 060)<br>(1 041)                                                                       | (1 213)<br>(1 194)                                                                       | (1 365)<br>(1 346)                                                                       | (1 517)<br>(1 499)                                                                       |                    | (1 060)<br>(1 041)                                                                        | (1 213)<br>(1 194)                                                                         | (1 365)<br>(1 346)                                                                         | (1 517)<br>(1 499)                                                                         |
|------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Opening    | 3' 5 3/4"                                                                                | 3' 11 3/4"                                                                               | 4' 5 3/4"                                                                                | 4' 11 3/4"                                                                               |                    | 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"                                                                                   |                    | 3' 5"                                                                                     | 3' 11"                                                                                     | 4' 5"                                                                                      | 4' 11"                                                                                     |
| 2' 11 3/4" |  4135 |  4735 |  5335 |  5935 | (1 517)<br>(1 499) |  4159 |  4759 |  5359 |  5959 |
| 3' 5"      |  4141 |  4741 |  5341 |  5941 | (1 670)<br>(1 651) |  4165 |  4765 |  5365 |  5965 |
| 3' 11 3/4" |  4147 |  4747 |  5347 |  5947 | (1 822)<br>(1 803) |  4171 |  4771 |  5371 |  5971 |
| 4' 5"      |  4153 |  4753 |  5353 |  5953 |                    |                                                                                           |                                                                                            |                                                                                            |                                                                                            |
| 4' 9"      |  4157 |  4757 |  5357 |  5957 |                    |                                                                                           |                                                                                            |                                                                                            |                                                                                            |

Not to scale.  
Traditional grille patterns shown.  
Grille patterns shown will align with grilles-between-the-glass on companion units.



## Size Tables - Replacement Sizes with Removable Grilles

## Transoms

|                |           | (616)<br>(597)                                                                                 | (718)<br>(699)                                                                                 | (762)<br>(749)                                                                                 | (819)<br>(800)                                                                                 | (921)<br>(902)                                                                                 | (1 022)<br>(1 003)                                                                             | (1 073)<br>(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"                                                                                      |
| (654)<br>(635) | 1' 2 3/4" | <br>23.5 x 14 | <br>27.5 x 14 | <br>29.5 x 14 | <br>31.5 x 14 | <br>35.5 x 14 | <br>39.5 x 14 | <br>41.5 x 14 |
|                | 1' 5"     | <br>23.5 x 17 | <br>27.5 x 17 | <br>29.5 x 17 | <br>31.5 x 17 | <br>35.5 x 17 | <br>39.5 x 17 | <br>41.5 x 17 |
|                | 2' 1"     | <br>23.5 x 25 | <br>27.5 x 25 | <br>29.5 x 25 | <br>31.5 x 25 | <br>35.5 x 25 | <br>39.5 x 25 | <br>41.5 x 25 |

## Vent Units

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

## 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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

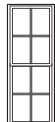
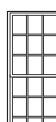
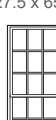
Not to scale.

Traditional grille patterns shown.



## Lifestyle Series Double-Hung

## Size Tables - Replacement Double-Hung with Removable Grilles

| Vent Units         |            | (616)<br>(597)                                                                                    | (718)<br>(699)                                                                                                   | (762)<br>(749)                                                                                                  | (819)<br>(800)                                                                                                  | (921)<br>(902)                                                                                      | (1 022)<br>(1 003)                                                                                    | (1 073)<br>(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"                                                                                             |
| (1 530)<br>(1 511) | 5' 0 1/4"  | <br>23.5 x 59.5  | <br>27.5 x 59.5                 | <br>29.5 x 59.5                | <br>31.5 x 59.5 E <sub>1</sub> | <br>35.5 x 59.5 E  | <br>39.5 x 59.5 E  | <br>41.5 x 59.5 E  |
|                    | 5' 2 1/4"  | <br>23.5 x 61.5  | <br>27.5 x 61.5                 | <br>29.5 x 61.5 E <sub>1</sub> | <br>31.5 x 61.5 E <sub>1</sub> | <br>35.5 x 61.5 E  | <br>39.5 x 61.5 E  | <br>41.5 x 61.5 E  |
|                    | 5' 6 1/4"  | <br>23.5 x 65.5  | <br>27.5 x 65.5                 | <br>29.5 x 65.5 E <sub>1</sub> | <br>31.5 x 65.5 E              | <br>35.5 x 65.5 E  | <br>39.5 x 65.5 E  | <br>41.5 x 65.5 E  |
|                    | 6' 0 1/4"  | <br>23.5 x 71.5 | <br>27.5 x 71.5 E <sub>1</sub> | <br>29.5 x 71.5 E             | <br>31.5 x 71.5 E             | <br>35.5 x 71.5 E | <br>39.5 x 71.5 E | <br>41.5 x 71.5 E |
| (1 581)<br>(1 562) | 5' 1 1/2"  |                                                                                                   |                                                                                                                  |                                                                                                                 |                                                                                                                 |                                                                                                     |                                                                                                       |                                                                                                       |
| (1 683)<br>(1 664) | 5' 5 1/2"  |                                                                                                   |                                                                                                                  |                                                                                                                 |                                                                                                                 |                                                                                                     |                                                                                                       |                                                                                                       |
| (1 835)<br>(1 816) | 5' 11 1/2" |                                                                                                   |                                                                                                                  |                                                                                                                 |                                                                                                                 |                                                                                                     |                                                                                                       |                                                                                                       |

**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 ft<sup>2</sup>.

E<sub>1</sub> = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

Traditional grille patterns shown.





## Size Tables - Replacement Sizes with Grilles-Between-the-Glass

## Transoms

|                | (616)<br>(597)                                                                    | (718)<br>(699)                                                                    | (762)<br>(749)                                                                    | (819)<br>(800)                                                                    | (921)<br>(902)                                                                    | (1 022)<br>(1 003)                                                                | (1 073)<br>(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)<br>(356) |  |  |  |  |  |  |  |
|                | 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)<br>(432) |  |  |  |  |  |  |  |
|                | 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)<br>(635) |  |  |  |  |  |  |  |
|                | 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)<br>(902)     |    |    |    |    |    |    |    |
|                    | 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)<br>(953)     |    |    |    |    |    |    |    |
|                    | 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)<br>(1 054) |  |  |  |  |  |  |  |
|                    | 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)<br>(1 156) |  |  |  |  |  |  |  |
|                    | 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)<br>(1 206) |  |  |  |  |  |  |  |
|                    | 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)<br>(1 308) |  |  |  |  |  |  |  |
|                    | 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)<br>(1 359) |  |  |  |  |  |  |  |
|                    | 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)<br>(1 461) |  |  |  |  |  |  |  |
|                    | 23.5 x 57.5                                                                         | 27.5 x 57.5                                                                         | 29.5 x 57.5                                                                         | 31.5 x 57.5 E <sub>1</sub>                                                          | 35.5 x 57.5 E                                                                       | 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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

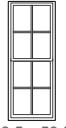
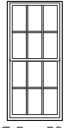
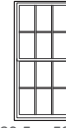
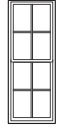
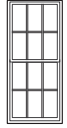
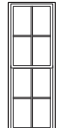
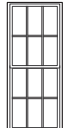
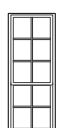
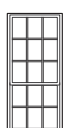
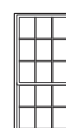
Traditional grille patterns shown.



## Lifestyle Series Double-Hung

## Size Tables - Replacement Double-Hung with Grilles-Between-the-Glass

## Vent Units

|                    |            | (616)<br>(597)                                                                     | (718)<br>(699)                                                                     | (762)<br>(749)                                                                     | (819)<br>(800)                                                                     | (921)<br>(902)                                                                     | (1 022)<br>(1 003)                                                                   | (1 073)<br>(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"                                                                            |
| (1 530)<br>(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 E <sub>1</sub>                                                         | 35.5 x 59.5 E                                                                      | 39.5 x 59.5 E                                                                        | 41.5 x 59.5 E                                                                        |
|                    | 5' 2 1/4"  |   |   |   |   |   |   |   |
|                    | 5' 1 1/2"  | 23.5 x 61.5                                                                        | 27.5 x 61.5                                                                        | 29.5 x 61.5 E <sub>1</sub>                                                         | 31.5 x 61.5 E <sub>1</sub>                                                         | 35.5 x 61.5 E                                                                      | 39.5 x 61.5 E                                                                        | 41.5 x 61.5 E                                                                        |
| (1 581)<br>(1 562) | 5' 6 1/4"  |   |   |   |   |   |   |   |
|                    | 5' 5 1/2"  | 23.5 x 65.5                                                                        | 27.5 x 65.5                                                                        | 29.5 x 65.5 E <sub>1</sub>                                                         | 31.5 x 65.5 E                                                                      | 35.5 x 65.5 E                                                                      | 39.5 x 65.5 E                                                                        | 41.5 x 65.5 E                                                                        |
| (1 683)<br>(1 664) | 6' 0 1/4"  |  |  |  |  |  |  |  |
|                    | 5' 11 1/2" | 23.5 x 71.5                                                                        | 27.5 x 71.5 E <sub>1</sub>                                                         | 29.5 x 71.5 E                                                                      | 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 ft<sup>2</sup>.

E<sub>1</sub> = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

Traditional grille patterns shown.



Size Tables - Replacement Fixed with Removable Grilles

Fixed Units

|                    | (1 060)<br>(1 041)                                                                               | (1 213)<br>(1 194)                                                                               | (1 365)<br>(1 346)                                                                               | (1 517)<br>(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"                                                                                           |
| (921)<br>(902)     | <br>41 x 35.5   | <br>47 x 35.5   | <br>53 x 35.5   | <br>59 x 35.5   |
| (972)<br>(953)     | <br>41 x 37.5   | <br>47 x 37.5   | <br>53 x 37.5   | <br>59 x 37.5   |
| (1 073)<br>(1 054) | <br>41 x 41.5   | <br>47 x 41.5   | <br>53 x 41.5   | <br>59 x 41.5   |
| (1 175)<br>(1 156) | <br>41 x 45.5   | <br>47 x 45.5   | <br>53 x 45.5   | <br>59 x 45.5   |
| (1 226)<br>(1 206) | <br>41 x 47.5   | <br>47 x 47.5   | <br>53 x 47.5   | <br>59 x 47.5   |
| (1 327)<br>(1 308) | <br>41 x 51.5  | <br>47 x 51.5  | <br>53 x 51.5  | <br>59 x 51.5  |
| (1 378)<br>(1 359) | <br>41 x 53.5 | <br>47 x 53.5 | <br>53 x 53.5 | <br>59 x 53.5 |
| (1 473)<br>(1 461) | <br>41 x 57.5 | <br>47 x 57.5 | <br>53 x 57.5 | <br>59 x 57.5 |
|                    | 4' 10 1/4"                                                                                       | 4' 10 1/4"                                                                                       | 4' 10 1/4"                                                                                       | 4' 10 1/4"                                                                                       |
|                    | 4' 9 1/2"                                                                                        | 4' 9 1/2"                                                                                        | 4' 9 1/2"                                                                                        | 4' 9 1/2"                                                                                        |

|                    | (1 060)<br>(1 041)                                                                              | (1 213)<br>(1 194)                                                                               | (1 365)<br>(1 346)                                                                               | (1 517)<br>(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"                                                                                           |
| (1 530)<br>(1 511) | <br>41 x 59.5 | <br>47 x 59.5 | <br>53 x 59.5 | <br>59 x 59.5 |
| (1 581)<br>(1 562) | <br>41 x 61.5 | <br>47 x 61.5 | <br>53 x 61.5 | <br>59 x 61.5 |
| (1 683)<br>(1 664) | <br>41 x 65.5 | <br>47 x 65.5 | <br>53 x 65.5 | <br>59 x 65.5 |
| (1 835)<br>(1 816) | <br>41 x 71.5 | <br>47 x 71.5 | <br>53 x 71.5 | <br>59 x 71.5 |
|                    | 5' 0 1/4"                                                                                       | 5' 0 1/4"                                                                                        | 5' 0 1/4"                                                                                        | 5' 0 1/4"                                                                                        |
|                    | 4' 11 1/2"                                                                                      | 4' 11 1/2"                                                                                       | 4' 11 1/2"                                                                                       | 4' 11 1/2"                                                                                       |

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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

Traditional grille patterns shown.



## Size Tables - Replacement Fixed with Grilles-Between-the-Glass

|                    | (1 060)<br>(1 041)                                                                               | (1 213)<br>(1 194)                                                                               | (1 365)<br>(1 346)                                                                               | (1 517)<br>(1 499)                                                                               |                    | (1 060)<br>(1 041)                                                                              | (1 213)<br>(1 194)                                                                               | (1 365)<br>(1 346)                                                                               | (1 517)<br>(1 499)                                                                               |            |
|--------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| Opening            | 3' 5 3/4"                                                                                        | 3' 11 3/4"                                                                                       | 4' 5 3/4"                                                                                        | 4' 11 3/4"                                                                                       |                    | 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"                                                                                           |                    | Frame                                                                                           | 3' 5"                                                                                            | 3' 11"                                                                                           | 4' 5"                                                                                            | 4' 11"     |
| (921)<br>(902)     | <br>41 x 35.5   | <br>47 x 35.5   | <br>53 x 35.5   | <br>59 x 35.5   | (1 530)<br>(1 511) | <br>41 x 59.5 | <br>47 x 59.5 | <br>53 x 59.5 | <br>59 x 59.5 |            |
| (972)<br>(953)     | <br>41 x 37.5   | <br>47 x 37.5   | <br>53 x 37.5   | <br>59 x 37.5   |                    | <br>41 x 61.5 | <br>47 x 61.5 | <br>53 x 61.5 | <br>59 x 61.5 |            |
| (1 073)<br>(1 054) | <br>41 x 41.5   | <br>47 x 41.5   | <br>53 x 41.5   | <br>59 x 41.5   | (1 581)<br>(1 562) | <br>41 x 65.5 | <br>47 x 65.5 | <br>53 x 65.5 | <br>59 x 65.5 |            |
| (1 175)<br>(1 156) | <br>41 x 45.5   | <br>47 x 45.5   | <br>53 x 45.5   | <br>59 x 45.5   | (1 683)<br>(1 664) | <br>41 x 71.5 | <br>47 x 71.5 | <br>53 x 71.5 | <br>59 x 71.5 |            |
| (1 226)<br>(1 206) | <br>41 x 47.5   | <br>47 x 47.5   | <br>53 x 47.5   | <br>59 x 47.5   | (1 835)<br>(1 816) |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |            |
| (1 327)<br>(1 308) | <br>41 x 51.5  | <br>47 x 51.5  | <br>53 x 51.5  | <br>59 x 51.5  |                    |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |            |
| (1 378)<br>(1 359) | <br>41 x 53.5 | <br>47 x 53.5 | <br>53 x 53.5 | <br>59 x 53.5 |                    |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |            |
| (1 473)<br>(1 461) | <br>41 x 57.5 | <br>47 x 57.5 | <br>53 x 57.5 | <br>59 x 57.5 |                    |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |            |
|                    |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |                    |                                                                                                 |                                                                                                  |                                                                                                  |                                                                                                  |            |

**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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

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

Not to scale.

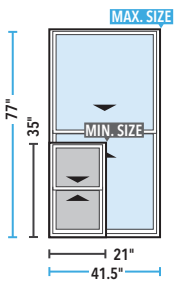
Traditional grille patterns shown.



Special Sizes and Dimensions

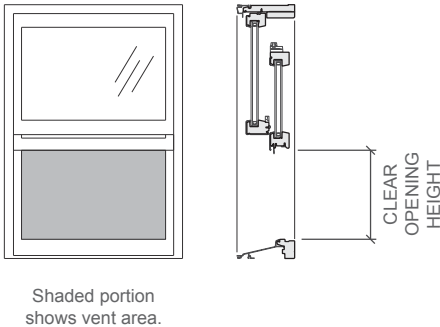
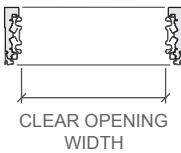
Special Size Frame Dimensions\*

|       | Minimum                                          | Maximum                                                 |
|-------|--------------------------------------------------|---------------------------------------------------------|
| Vent  | 1' 9" W x 2' 11" H<br>(21" x 35")<br>(533 x 889) | 3' 5" W x 6' 5" H<br>(41-1/2" x 77")<br>(1 041 x 1 956) |
| Fixed | 1' 9" W x 1' 2" H<br>(21" x 14")<br>(533 x 356)  | 4' 11" W x 6' 1" H<br>(59" x 73")<br>(1 499 x 1 854)    |



Miscellaneous Formulas (Equal Sash Only)

|                       | Vent Units                                                        |
|-----------------------|-------------------------------------------------------------------|
| Visible Glass         | Width = Frame - 5"<br>Height <sub>1</sub> = (Frame - 6.3125") ÷ 2 |
| Actual Glass          | Width = Frame - 4"<br>Height <sub>1</sub> = (Frame - 4.3125") ÷ 2 |
| Clear Opening Height: | (Frame Height ÷ 2) - 3.25"                                        |
| Clear Opening Width:  | Frame Width - 3.1875"                                             |



Miscellaneous Formulas (Fixed Units Only)

|               | Fixed and transom units                             |
|---------------|-----------------------------------------------------|
| Visible Glass | Width = Frame - 4.9375"<br>Height = Frame - 4.9375" |
| Actual Glass  | Width = Frame - 4"<br>Height = Frame - 4"           |

\* Available within size range shown. Keep frame dimensions to the nearest 1/4" increment. Frame height cannot exceed frame width on special size dual-pane vent units.  
(1) Per Sash  
To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



## Design Data - Vent Units

## New Construction Vent

| Unit | Egress | Clear Opening (Inches) |        | Vent Area Ft <sup>2</sup> | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>1</sup> |
|------|--------|------------------------|--------|---------------------------|-------------------------------|-------------------------------|----------|----------------------------------------|
|      |        | Width                  | Height |                           |                               | Annealed                      | Tempered |                                        |
| 2135 |        | 17-13/16               | 14-1/4 | 1.8                       | 3.2                           | 2.5                           | 3        | LC50                                   |
| 2141 |        | 17-13/16               | 17-1/4 | 2.1                       | 3.9                           | 2.5                           | 3        | LC50                                   |
| 2147 |        | 17-13/16               | 20-1/4 | 2.5                       | 4.5                           | 2.5                           | 3        | LC50                                   |
| 2153 |        | 17-13/16               | 23-1/4 | 2.9                       | 5.2                           | 2.5                           | 3        | LC50                                   |
| 2157 |        | 17-13/16               | 25-1/4 | 3.1                       | 5.6                           | 2.5                           | 3        | LC40/LC50                              |
| 2159 |        | 17-13/16               | 26-1/4 | 3.2                       | 5.9                           | 2.5                           | 3        | LC40/LC50                              |
| 2165 |        | 17-13/16               | 29-1/4 | 3.6                       | 6.5                           | 2.5                           | 3        | LC40/LC50                              |
| 2171 |        | 17-13/16               | 32-1/4 | 4.0                       | 7.2                           | 2.5                           | 3        | LC30/LC50                              |
| 2177 |        | 17-13/16               | 35-1/4 | 4.3                       | 7.8                           | 2.5                           | 3        | LC30                                   |
| 2535 |        | 21-13/16               | 14-1/4 | 2.2                       | 4.0                           | 2.5                           | 3        | LC50                                   |
| 2541 |        | 21-13/16               | 17-1/4 | 2.6                       | 4.8                           | 2.5                           | 3        | LC50                                   |
| 2547 |        | 21-13/16               | 20-1/4 | 3.1                       | 5.7                           | 2.5                           | 3        | LC50                                   |
| 2553 |        | 21-13/16               | 23-1/4 | 3.5                       | 6.5                           | 2.5                           | 3        | LC50                                   |
| 2557 |        | 21-13/16               | 25-1/4 | 3.8                       | 7.0                           | 2.5                           | 3        | LC40/LC50                              |
| 2559 |        | 21-13/16               | 26-1/4 | 4.0                       | 7.3                           | 2.5                           | 3        | LC40/LC50                              |
| 2565 |        | 21-13/16               | 29-1/4 | 4.4                       | 8.2                           | 2.5                           | 3        | LC40/LC50                              |
| 2571 |        | 21-13/16               | 32-1/4 | 4.9                       | 9.0                           | 2.5                           | 3        | LC30/LC50                              |
| 2577 | E1     | 21-13/16               | 35-1/4 | 5.3                       | 9.8                           | 2.5                           | 3        | LC30                                   |
| 2935 |        | 25-13/16               | 14-1/4 | 2.6                       | 4.8                           | 2.5                           | 3        | LC50                                   |
| 2941 |        | 25-13/16               | 17-1/4 | 3.1                       | 5.8                           | 2.5                           | 3        | LC50                                   |
| 2947 |        | 25-13/16               | 20-1/4 | 3.6                       | 6.8                           | 2.5                           | 3        | LC50                                   |
| 2953 |        | 25-13/16               | 23-1/4 | 4.2                       | 7.8                           | 2.5                           | 3        | LC50                                   |
| 2957 |        | 25-13/16               | 25-1/4 | 4.5                       | 8.4                           | 2.5                           | 3        | LC40/LC50                              |
| 2959 |        | 25-13/16               | 26-1/4 | 4.7                       | 8.8                           | 2.5                           | 3        | LC40/LC50                              |
| 2965 | E1     | 25-13/16               | 29-1/4 | 5.2                       | 9.8                           | 2.5                           | 3        | LC40/LC50                              |
| 2971 | E      | 25-13/16               | 32-1/4 | 5.8                       | 10.8                          | 2.5                           | 3        | LC30/LC50                              |
| 2977 | E      | 25-13/16               | 35-1/4 | 6.3                       | 11.7                          | 2.5                           | 3        | LC30                                   |
| 3335 |        | 29-13/16               | 14-1/4 | 3.0                       | 5.6                           | 2.5                           | 3        | LC50                                   |
| 3341 |        | 29-13/16               | 17-1/4 | 3.6                       | 6.7                           | 2.5                           | 3        | LC50                                   |
| 3347 |        | 29-13/16               | 20-1/4 | 4.2                       | 7.9                           | 2.5                           | 3        | LC50                                   |
| 3353 |        | 29-13/16               | 23-1/4 | 4.8                       | 9.1                           | 2.5                           | 3        | LC40/LC50                              |
| 3357 | E1     | 29-13/16               | 25-1/4 | 5.2                       | 9.9                           | 2.5                           | 3        | LC40/LC50                              |
| 3359 | E1     | 29-13/16               | 26-1/4 | 5.4                       | 10.2                          | 2.5                           | 3        | LC40/LC50                              |
| 3365 | E      | 29-13/16               | 29-1/4 | 6.1                       | 11.4                          | 2.5                           | 3        | LC35/LC50                              |
| 3371 | E      | 29-13/16               | 32-1/4 | 6.7                       | 12.6                          | 2.5                           | 3        | LC30/LC50                              |
| 3377 | E      | 29-13/16               | 35-1/4 | 7.3                       | 13.7                          | 2.5                           | 3        | LC30                                   |
| 3735 |        | 33-13/16               | 14-1/4 | 3.3                       | 6.4                           | 2.5                           | 3        | LC35/LC50                              |
| 3741 |        | 33-13/16               | 17-1/4 | 4.1                       | 7.7                           | 2.5                           | 3        | LC35/LC50                              |
| 3747 |        | 33-13/16               | 20-1/4 | 4.8                       | 9.0                           | 2.5                           | 3        | LC35/LC50                              |
| 3753 |        | 33-13/16               | 23-1/4 | 5.5                       | 10.4                          | 2.5                           | 3        | LC35/LC50                              |
| 3757 | E      | 33-13/16               | 25-1/4 | 5.9                       | 11.3                          | 2.5                           | 3        | LC35/LC50                              |
| 3759 | E      | 33-13/16               | 26-1/4 | 6.2                       | 11.7                          | 2.5                           | 3        | LC35/LC50                              |
| 3765 | E      | 33-13/16               | 29-1/4 | 6.9                       | 13.0                          | 2.5                           | 3        | LC35/LC50                              |
| 3771 | E      | 33-13/16               | 32-1/4 | 7.6                       | 14.4                          | 2.5                           | 3        | LC30/LC50                              |
| 3777 | E      | 33-13/16               | 35-1/4 | 8.3                       | 15.7                          | 2.5                           | 3        | LC30                                   |
| 4135 |        | 37-13/16               | 14-1/4 | 3.7                       | 6.5                           | 2.5                           | 3        | LC30                                   |
| 4141 |        | 37-13/16               | 17-1/4 | 4.5                       | 7.9                           | 2.5                           | 3        | LC30                                   |
| 4147 |        | 37-13/16               | 20-1/4 | 5.3                       | 9.2                           | 2.5                           | 3        | LC30                                   |
| 4153 |        | 37-13/16               | 23-1/4 | 6.1                       | 11.7                          | 2.5                           | 3        | LC30                                   |
| 4157 | E      | 37-13/16               | 25-1/4 | 6.6                       | 12.7                          | 2.5                           | 3        | LC30                                   |
| 4159 | E      | 37-13/16               | 26-1/4 | 6.9                       | 13.2                          | 2.5                           | 3        | LC30                                   |
| 4165 | E      | 37-13/16               | 29-1/4 | 7.7                       | 14.7                          | 2.5                           | 3        | LC30                                   |
| 4171 | E      | 37-13/16               | 32-1/4 | 8.5                       | 16.2                          | 2.5                           | 3        | LC30                                   |
| 4177 | E      | 37-13/16               | 35-1/4 | 9.2                       | 17.6                          | 2.5                           | 3        | LC30                                   |

**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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates performance with DP Enhancement Kit installed.

To convert area to square meters (m<sup>2</sup>), multiply square feet by 0.0929.





## Design Data - Fixed and Transoms

| New Construction Fixed |                               |                               |          |                                        |
|------------------------|-------------------------------|-------------------------------|----------|----------------------------------------|
| Unit                   | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>1</sup> |
|                        |                               | Annealed                      | Tempered |                                        |
| 4135                   | 7.5                           | 3                             | 3        | LC50                                   |
| 4141                   | 9.0                           | 3                             | 3        | LC50                                   |
| 4147                   | 10.5                          | 3                             | 3        | LC50                                   |
| 4153                   | 12.0                          | 3                             | 3        | LC50                                   |
| 4157                   | 13.0                          | 3                             | 3        | LC50                                   |
| 4159                   | 13.6                          | 3                             | 3        | LC50                                   |
| 4165                   | 15.1                          | 3                             | 3        | LC50                                   |
| 4171                   | 16.6                          | 3                             | 3        | LC45/LC50                              |
| 4735                   | 8.8                           | 3                             | 3        | LC50                                   |
| 4741                   | 10.5                          | 3                             | 3        | LC50                                   |
| 4747                   | 12.3                          | 3                             | 3        | LC50                                   |
| 4753                   | 14.1                          | 3                             | 3        | LC50                                   |
| 4757                   | 15.2                          | 3                             | 3        | LC50                                   |
| 4759                   | 15.8                          | 3                             | 3        | LC45/LC50                              |
| 4765                   | 17.6                          | 3                             | 3        | LC45/LC50                              |
| 4771                   | 19.3                          | 4                             | 4        | LC50                                   |
| 5335                   | 10.0                          | 3                             | 3        | LC50                                   |
| 5341                   | 12.0                          | 3                             | 3        | LC50                                   |
| 5347                   | 14.1                          | 3                             | 3        | LC50                                   |
| 5353                   | 16.1                          | 3                             | 4        | LC45/LC50                              |
| 5357                   | 17.4                          | 3                             | 4        | LC45/LC50                              |
| 5359                   | 18.1                          | 4                             | 4        | LC50                                   |
| 5365                   | 20.1                          | 4                             | 4        | LC50                                   |
| 5371                   | 22.1                          | 4                             | 4        | LC50                                   |
| 5935                   | 11.3                          | 3                             | 3        | LC50                                   |
| 5941                   | 13.6                          | 3                             | 3        | LC50                                   |
| 5947                   | 15.8                          | 3                             | 3        | LC45/LC50                              |
| 5953                   | 18.1                          | 4                             | 4        | LC50                                   |
| 5957                   | 19.6                          | 4                             | 4        | LC50                                   |
| 5959                   | 20.3                          | 4                             | 4        | LC50                                   |
| 5965                   | 22.6                          | 4                             | 4        | LC50                                   |
| 5971                   | 24.8                          | 4                             | 4        | LC45/LC50                              |

| New Construction Fixed Transom |                               |                               |          |                                        |
|--------------------------------|-------------------------------|-------------------------------|----------|----------------------------------------|
| Unit                           | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>1</sup> |
|                                |                               | Annealed                      | Tempered |                                        |
| 2114                           | 1.0                           | 3                             | 3        | LC50                                   |
| 2117                           | 1.3                           | 3                             | 3        | LC50                                   |
| 2121                           | 1.8                           | 3                             | 3        | LC50                                   |
| 2125                           | 2.2                           | 3                             | 3        | LC50                                   |
| 2514                           | 1.3                           | 3                             | 3        | LC50                                   |
| 2517                           | 1.7                           | 3                             | 3        | LC50                                   |
| 2525                           | 2.8                           | 3                             | 3        | LC50                                   |
| 2914                           | 1.5                           | 3                             | 3        | LC50                                   |
| 2917                           | 2.0                           | 3                             | 3        | LC50                                   |
| 2925                           | 3.4                           | 3                             | 3        | LC50                                   |
| 2929                           | 4.0                           | 3                             | 3        | LC50                                   |
| 3314                           | 1.8                           | 3                             | 3        | LC50                                   |
| 3317                           | 2.4                           | 3                             | 3        | LC50                                   |
| 3325                           | 3.9                           | 3                             | 3        | LC50                                   |
| 3714                           | 2.0                           | 3                             | 3        | LC50                                   |
| 3717                           | 2.7                           | 3                             | 3        | LC50                                   |
| 3725                           | 4.5                           | 3                             | 3        | LC50                                   |
| 4114                           | 2.3                           | 3                             | 3        | LC50                                   |
| 4117                           | 3.0                           | 3                             | 3        | LC50                                   |
| 4125                           | 5.0                           | 3                             | 3        | LC50                                   |

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.  
To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



## Lifestyle Series Double-Hung

Item 8.

### Design Data - Replacement Double-Hung

| Replacement Vent |        |                |                 |                           |                               |                               |          |                                        |
|------------------|--------|----------------|-----------------|---------------------------|-------------------------------|-------------------------------|----------|----------------------------------------|
| Unit             | Egress | Clear Opening  |                 | Vent Area Ft <sup>2</sup> | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>1</sup> |
|                  |        | Width (Inches) | Height (Inches) |                           |                               | Annealed                      | Tempered |                                        |
| 23.5 x 35.5      |        | 20-5/16        | 14-1/2          | 2.0                       | 3.7                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 37.5      |        | 20-5/16        | 15-1/2          | 2.1                       | 4.0                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 41.5      |        | 20-5/16        | 17-1/2          | 2.4                       | 4.5                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 45.5      |        | 20-5/16        | 19-1/2          | 2.7                       | 5.0                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 47.5      |        | 20-5/16        | 20-1/2          | 2.8                       | 5.3                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 51.5      |        | 20-5/16        | 22-1/2          | 3.1                       | 5.8                           | 2.5                           | 3        | LC50                                   |
| 23.5 x 53.5      |        | 20-5/16        | 23-1/2          | 3.3                       | 6.1                           | 2.5                           | 3        | LC40/LC50                              |
| 23.5 x 57.5      |        | 20-5/16        | 25-1/2          | 3.5                       | 6.6                           | 2.5                           | 3        | LC40/LC50                              |
| 23.5 x 59.5      |        | 20-5/16        | 26-1/2          | 3.7                       | 6.8                           | 2.5                           | 3        | LC40/LC50                              |
| 23.5 x 61.5      |        | 20-5/16        | 27-1/2          | 3.8                       | 7.1                           | 2.5                           | 3        | LC40/LC50                              |
| 23.5 x 65.5      |        | 20-5/16        | 29-1/2          | 4.1                       | 7.6                           | 2.5                           | 3        | LC30/LC50                              |
| 23.5 x 71.5      |        | 20-5/16        | 32-1/2          | 4.5                       | 8.4                           | 2.5                           | 3        | LC30/LC50                              |
| 27.5 x 35.5      |        | 24-5/16        | 14-1/2          | 2.4                       | 4.6                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 37.5      |        | 24-5/16        | 15-1/2          | 2.6                       | 4.9                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 41.5      |        | 24-5/16        | 17-1/2          | 2.9                       | 5.5                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 45.5      |        | 24-5/16        | 19-1/2          | 3.2                       | 6.1                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 47.5      |        | 24-5/16        | 20-1/2          | 3.4                       | 6.4                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 51.5      |        | 24-5/16        | 22-1/2          | 3.7                       | 7.1                           | 2.5                           | 3        | LC50                                   |
| 27.5 x 53.5      |        | 24-5/16        | 23-1/2          | 3.9                       | 7.4                           | 2.5                           | 3        | LC40/LC50                              |
| 27.5 x 57.5      |        | 24-5/16        | 25-1/2          | 4.3                       | 8.0                           | 2.5                           | 3        | LC40/LC50                              |
| 27.5 x 59.5      |        | 24-5/16        | 26-1/2          | 4.4                       | 8.3                           | 2.5                           | 3        | LC40/LC50                              |
| 27.5 x 61.5      |        | 24-5/16        | 27-1/2          | 4.6                       | 8.6                           | 2.5                           | 3        | LC40/LC50                              |
| 27.5 x 65.5      |        | 24-5/16        | 29-1/2          | 4.9                       | 9.2                           | 2.5                           | 3        | LC30/LC50                              |
| 27.5 x 71.5      | E1     | 24-5/16        | 32-1/2          | 5.4                       | 10.2                          | 2.5                           | 3        | LC30/LC50                              |
| 29.5 x 35.5      |        | 26-5/16        | 14-1/2          | 2.6                       | 5.0                           | 2.5                           | 3        | LC50                                   |
| 29.5 x 37.5      |        | 26-5/16        | 15-1/2          | 2.8                       | 5.3                           | 2.5                           | 3        | LC50                                   |
| 29.5 x 41.5      |        | 26-5/16        | 17-1/2          | 3.1                       | 6.0                           | 2.5                           | 3        | LC50                                   |
| 29.5 x 45.5      |        | 26-5/16        | 19-1/2          | 3.5                       | 6.7                           | 2.5                           | 3        | LC50                                   |
| 29.5 x 47.5      |        | 26-5/16        | 20-1/2          | 3.7                       | 7.0                           | 2.5                           | 3        | LC40/LC50                              |
| 29.5 x 51.5      |        | 26-5/16        | 22-1/2          | 4.1                       | 7.7                           | 2.5                           | 3        | LC40/LC50                              |
| 29.5 x 53.5      |        | 26-5/16        | 23-1/2          | 4.2                       | 8.0                           | 2.5                           | 3        | LC40/LC50                              |
| 29.5 x 57.5      |        | 26-5/16        | 25-1/2          | 4.6                       | 8.7                           | 2.5                           | 3        | LC40/LC50                              |
| 29.5 x 59.5      |        | 26-5/16        | 26-1/2          | 4.8                       | 9.0                           | 2.5                           | 3        | LC35/LC50                              |
| 29.5 x 61.5      | E1     | 26-5/16        | 27-1/2          | 5.0                       | 9.4                           | 2.5                           | 3        | LC35/LC50                              |
| 29.5 x 65.5      | E1     | 26-5/16        | 29-1/2          | 5.3                       | 10.1                          | 2.5                           | 3        | LC30/LC50                              |
| 29.5 x 71.5      | E      | 26-5/16        | 32-1/2          | 5.9                       | 11.1                          | 2.5                           | 3        | LC30/LC50                              |

#### 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 ft<sup>2</sup>.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft<sup>2</sup>.

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, indicates performance with DP Enhancement Kit installed.



# Lifestyle Series Double-Hung

Item 8.

## Design Data - Replacement Double-Hung

### Replacement Vent

| Unit        | Egress | Clear Opening  |                 | Vent Area Ft² | Visible Glass Ft² | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>1</sup> |
|-------------|--------|----------------|-----------------|---------------|-------------------|-------------------------------|----------|----------------------------------------|
|             |        | Width (Inches) | Height (Inches) |               |                   | Annealed                      | Tempered |                                        |
| 31.5 x 35.5 |        | 28-5/16        | 14-1/2          | 2.8           | 5.4               | 2.5                           | 3        | LC50                                   |
| 31.5 x 37.5 |        | 28-5/16        | 15-1/2          | 3.0           | 5.7               | 2.5                           | 3        | LC50                                   |
| 31.5 x 41.5 |        | 28-5/16        | 17-1/2          | 3.4           | 6.5               | 2.5                           | 3        | LC50                                   |
| 31.5 x 45.5 |        | 28-5/16        | 19-1/2          | 3.8           | 7.2               | 2.5                           | 3        | LC50                                   |
| 31.5 x 47.5 |        | 28-5/16        | 20-1/2          | 4.0           | 7.6               | 2.5                           | 3        | LC40/LC50                              |
| 31.5 x 51.5 |        | 28-5/16        | 22-1/2          | 4.4           | 8.3               | 2.5                           | 3        | LC40/LC50                              |
| 31.5 x 53.5 |        | 28-5/16        | 23-1/2          | 4.6           | 8.7               | 2.5                           | 3        | LC40/LC50                              |
| 31.5 x 57.5 | E1     | 28-5/16        | 25-1/2          | 5.0           | 9.4               | 2.5                           | 3        | LC40/LC50                              |
| 31.5 x 59.5 | E1     | 28-5/16        | 26-1/2          | 5.2           | 9.8               | 2.5                           | 3        | LC35/LC50                              |
| 31.5 x 61.5 | E1     | 28-5/16        | 27-1/2          | 5.4           | 10.2              | 2.5                           | 3        | LC35/LC50                              |
| 31.5 x 65.5 | E      | 28-5/16        | 29-1/2          | 5.8           | 10.9              | 2.5                           | 3        | LC30/LC50                              |
| 31.5 x 71.5 | E      | 28-5/16        | 32-1/2          | 6.3           | 12.0              | 2.5                           | 3        | LC30/LC50                              |
| 35.5 x 35.5 |        | 32-5/16        | 14-1/2          | 3.2           | 6.2               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 37.5 |        | 32-5/16        | 15-1/2          | 3.4           | 6.6               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 41.5 |        | 32-5/16        | 17-1/2          | 3.9           | 7.5               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 45.5 |        | 32-5/16        | 19-1/2          | 4.3           | 8.3               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 47.5 |        | 32-5/16        | 20-1/2          | 4.6           | 8.7               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 51.5 |        | 32-5/16        | 22-1/2          | 5.0           | 9.6               | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 53.5 |        | 32-5/16        | 23-1/2          | 5.2           | 10.0              | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 57.5 | E1     | 32-5/16        | 25-1/2          | 5.7           | 10.8              | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 59.5 | E      | 32-5/16        | 26-1/2          | 5.9           | 11.3              | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 61.5 | E      | 32-5/16        | 27-1/2          | 6.1           | 11.7              | 2.5                           | 3        | LC35/LC50                              |
| 35.5 x 65.5 | E      | 32-5/16        | 29-1/2          | 6.6           | 12.5              | 2.5                           | 3        | LC30/LC50                              |
| 35.5 x 71.5 | E      | 32-5/16        | 32-1/2          | 7.2           | 13.8              | 2.5                           | 3        | LC30/LC50                              |
| 39.5 x 35.5 |        | 36-5/16        | 14-1/2          | 3.6           | 7.0               | 2.5                           | 3        | LC30                                   |
| 39.5 x 37.5 |        | 36-5/16        | 15-1/2          | 3.9           | 7.5               | 2.5                           | 3        | LC30                                   |
| 39.5 x 41.5 |        | 36-5/16        | 17-1/2          | 4.4           | 8.4               | 2.5                           | 3        | LC30                                   |
| 39.5 x 45.5 |        | 36-5/16        | 19-1/2          | 4.9           | 9.4               | 2.5                           | 3        | LC30                                   |
| 39.5 x 47.5 |        | 36-5/16        | 20-1/2          | 5.1           | 9.9               | 2.5                           | 3        | LC30                                   |
| 39.5 x 51.5 |        | 36-5/16        | 22-1/2          | 5.6           | 10.8              | 2.5                           | 3        | LC30                                   |
| 39.5 x 53.5 |        | 36-5/16        | 23-1/2          | 5.9           | 11.3              | 2.5                           | 3        | LC30                                   |
| 39.5 x 57.5 | E      | 36-5/16        | 25-1/2          | 6.4           | 12.3              | 2.5                           | 3        | LC30                                   |
| 39.5 x 59.5 | E      | 36-5/16        | 26-1/2          | 6.6           | 12.7              | 2.5                           | 3        | LC30                                   |
| 39.5 x 61.5 | E      | 36-5/16        | 27-1/2          | 6.9           | 13.2              | 2.5                           | 3        | LC30                                   |
| 39.5 x 65.5 | E      | 36-5/16        | 29-1/2          | 7.4           | 14.2              | 2.5                           | 3        | LC30                                   |
| 39.5 x 71.5 | E      | 36-5/16        | 32-1/2          | 8.1           | 15.6              | 2.5                           | 3        | LC30                                   |
| 41.5 x 35.5 |        | 38-5/16        | 14-1/2          | 3.6           | 7.4               | 2.5                           | 3        | LC30                                   |
| 41.5 x 37.5 |        | 38-5/16        | 15-1/2          | 3.9           | 7.9               | 2.5                           | 3        | LC30                                   |
| 41.5 x 41.5 |        | 38-5/16        | 17-1/2          | 4.4           | 8.9               | 2.5                           | 3        | LC30                                   |
| 41.5 x 45.5 |        | 38-5/16        | 19-1/2          | 4.9           | 9.9               | 2.5                           | 3        | LC30                                   |
| 41.5 x 47.5 |        | 38-5/16        | 20-1/2          | 5.1           | 10.4              | 2.5                           | 3        | LC30                                   |
| 41.5 x 51.5 |        | 38-5/16        | 22-1/2          | 5.6           | 11.5              | 2.5                           | 3        | LC30                                   |
| 41.5 x 53.5 |        | 38-5/16        | 23-1/2          | 5.9           | 12.0              | 2.5                           | 3        | LC30                                   |
| 41.5 x 57.5 | E      | 38-5/16        | 25-1/2          | 6.4           | 13.0              | 2.5                           | 3        | LC30                                   |
| 41.5 x 59.5 | E      | 38-5/16        | 26-1/2          | 6.6           | 13.5              | 2.5                           | 3        | LC30                                   |
| 41.5 x 61.5 | E      | 38-5/16        | 27-1/2          | 6.9           | 14.0              | 2.5                           | 3        | LC30                                   |
| 41.5 x 65.5 | E      | 38-5/16        | 29-1/2          | 7.4           | 15.0              | 2.5                           | 3        | LC30                                   |
| 41.5 x 71.5 | E      | 38-5/16        | 32-1/2          | 8.1           | 16.5              | 2.5                           | 3        | LC30                                   |

#### 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. Second number, where shown, indicates performance with DP Enhancement Kit installed.



## Design Data - Replacement Fixed and Transoms

| Replacement Fixed |                               |                               |          |                                          |
|-------------------|-------------------------------|-------------------------------|----------|------------------------------------------|
| Unit              | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>(1)</sup> |
|                   |                               | Annealed                      | Tempered |                                          |
| 41 x 35.5         | 7.7                           | 3                             | 3        | LC50                                     |
| 41 x 37.5         | 8.2                           | 3                             | 3        | LC50                                     |
| 41 x 41.5         | 9.2                           | 3                             | 3        | LC50                                     |
| 41 x 45.5         | 10.2                          | 3                             | 3        | LC50                                     |
| 41 x 47.5         | 10.7                          | 3                             | 3        | LC50                                     |
| 41 x 51.5         | 11.7                          | 3                             | 3        | LC50                                     |
| 41 x 53.5         | 12.2                          | 3                             | 3        | LC50                                     |
| 41 x 57.5         | 13.2                          | 3                             | 3        | LC50                                     |
| 41 x 59.5         | 13.7                          | 3                             | 3        | LC50                                     |
| 41 x 61.5         | 14.2                          | 3                             | 3        | LC50                                     |
| 41 x 65.5         | 15.2                          | 3                             | 3        | LC50                                     |
| 41 x 71.5         | 16.7                          | 3                             | 3        | LC45/LC50                                |
| 47 x 35.5         | 8.9                           | 3                             | 3        | LC50                                     |
| 47 x 37.5         | 9.5                           | 3                             | 3        | LC50                                     |
| 47 x 41.5         | 10.7                          | 3                             | 3        | LC50                                     |
| 47 x 45.5         | 11.9                          | 3                             | 3        | LC50                                     |
| 47 x 47.5         | 12.4                          | 3                             | 3        | LC50                                     |
| 47 x 51.5         | 13.6                          | 3                             | 3        | LC50                                     |
| 47 x 53.5         | 14.2                          | 3                             | 3        | LC50                                     |
| 47 x 57.5         | 15.4                          | 3                             | 3        | LC50                                     |
| 47 x 59.5         | 15.9                          | 3                             | 3        | LC45/LC50                                |
| 47 x 61.5         | 16.5                          | 3                             | 3        | LC45/LC50                                |
| 47 x 65.5         | 17.7                          | 3                             | 3        | LC40/LC50                                |
| 47 x 71.5         | 19.5                          | 4                             | 4        | LC50                                     |
| 53 x 35.5         | 10.2                          | 3                             | 3        | LC50                                     |
| 53 x 37.5         | 10.9                          | 3                             | 3        | LC50                                     |
| 53 x 41.5         | 12.2                          | 3                             | 3        | LC50                                     |
| 53 x 45.5         | 13.5                          | 3                             | 3        | LC50                                     |
| 53 x 47.5         | 14.2                          | 3                             | 3        | LC50                                     |
| 53 x 51.5         | 15.6                          | 3                             | 3        | LC50                                     |
| 53 x 53.5         | 16.2                          | 3                             | 4        | LC45/LC50                                |
| 53 x 57.5         | 17.6                          | 3                             | 4        | LC40/LC50                                |
| 53 x 59.5         | 18.2                          | 4                             | 4        | LC50                                     |
| 53 x 61.5         | 18.9                          | 4                             | 4        | LC50                                     |
| 53 x 65.5         | 20.2                          | 4                             | 4        | LC50                                     |
| 53 x 71.5         | 22.2                          | 4                             | 4        | LC50                                     |
| 59 x 35.5         | 11.5                          | 3                             | 3        | LC50                                     |
| 59 x 37.5         | 12.2                          | 3                             | 3        | LC50                                     |
| 59 x 41.5         | 13.7                          | 3                             | 3        | LC50                                     |
| 59 x 45.5         | 15.2                          | 3                             | 3        | LC50                                     |
| 59 x 47.5         | 16.0                          | 3                             | 3        | LC45/LC50                                |
| 59 x 51.5         | 17.5                          | 3                             | 4        | LC45/LC50                                |
| 59 x 53.5         | 18.2                          | 4                             | 4        | LC50                                     |
| 59 x 57.5         | 19.7                          | 4                             | 4        | LC50                                     |
| 59 x 59.5         | 20.5                          | 4                             | 4        | LC50                                     |
| 59 x 61.5         | 21.2                          | 4                             | 4        | LC50                                     |
| 59 x 65.5         | 22.8                          | 4                             | 4        | LC50                                     |
| 59 x 71.5         | 25.0                          | 4                             | 4        | LC45/LC50                                |

| Replacement Fixed Transom |                               |                               |          |                                          |
|---------------------------|-------------------------------|-------------------------------|----------|------------------------------------------|
| Unit                      | Visible Glass Ft <sup>2</sup> | Standard Glass Thickness (mm) |          | Performance Class & Grade <sup>(1)</sup> |
|                           |                               | Annealed                      | Tempered |                                          |
| 23.5 x 14                 | 1.2                           | 3                             | 3        | LC50                                     |
| 23.5 x 17                 | 1.6                           | 3                             | 3        | LC50                                     |
| 23.5 x 25                 | 2.6                           | 3                             | 3        | LC50                                     |
| 27.5 x 14                 | 1.4                           | 3                             | 3        | LC50                                     |
| 27.5 x 17                 | 1.9                           | 3                             | 3        | LC50                                     |
| 27.5 x 25                 | 3.1                           | 3                             | 3        | LC50                                     |
| 29.5 x 14                 | 1.5                           | 3                             | 3        | LC50                                     |
| 29.5 x 17                 | 2.1                           | 3                             | 3        | LC50                                     |
| 29.5 x 25                 | 3.4                           | 3                             | 3        | LC50                                     |
| 31.5 x 14                 | 1.7                           | 3                             | 3        | LC50                                     |
| 31.5 x 17                 | 2.2                           | 3                             | 3        | LC50                                     |
| 31.5 x 25                 | 3.7                           | 3                             | 3        | LC50                                     |
| 35.5 x 14                 | 1.9                           | 3                             | 3        | LC50                                     |
| 35.5 x 17                 | 2.6                           | 3                             | 3        | LC50                                     |
| 35.5 x 25                 | 4.3                           | 3                             | 3        | LC50                                     |
| 39.5 x 14                 | 2.2                           | 3                             | 3        | LC50                                     |
| 39.5 x 17                 | 2.9                           | 3                             | 3        | LC50                                     |
| 39.5 x 25                 | 4.8                           | 3                             | 3        | LC50                                     |
| 41.5 x 14                 | 2.3                           | 3                             | 3        | LC50                                     |
| 41.5 x 17                 | 3.1                           | 3                             | 3        | LC50                                     |
| 41.5 x 25                 | 5.1                           | 3                             | 3        | LC50                                     |

(1) Maximum performance when glazed with the appropriate glass thickness. Second number down, requires tempered glass.  
To convert areas to square meters (m<sup>2</sup>), multiply square feet by 0.0929.



## Detailed Product Description

### 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.
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127 mm) for a wall depth of 3-11/16" (94mm).
- Jamb liner shall be high-impact polyvinyl chloride backed by continuous hard-tempered aluminum springs.
- Optional factory applied jamb extensions are available.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.

### 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.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-5/8" (41 mm).
- Sashes tilt for easy cleaning.

### Weatherstripping

- Foam with 3 mm skin at head and bottom rail. Thermal-plastic elastomer bulb with slip-coating set into upper sash for tight contact at check rail.
- Secondary polyvinyl chloride leaf-type weatherstrip on bottom sash at sill.
- Jamb liner to seal against sides of sash.

### Glazing System

- Quality float glass complying with ASTM C 1036.
- High altitude glazing available.
- Silicone groove-glazed 11/16" [obscure] dual-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E] [SunDefense™ Low-E] [AdvancedComfort] [NaturalSun Low-E] with argon]].

### Exterior

- Exterior aluminum surfaces are finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Color is [White] [Tan] [Putty] [Brown] [Poplar White] [Portobello] [Hartford Green] [Morning Sky Gray] [Brick Red] [Black].

### Interior

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

### Hardware

- Galvanized block-and-tackle balances are connected to sash with a polyester cord and concealed within the frame.
- Factory installed self-aligning surface-mounted sash lock. Two sash locks on units with frame width 33-1/4" and greater.
- Optional Sash lift furnished for field installation. Two lifts on units with frame width 33-1/4" and greater.
- Finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Oil-Rubbed Bronze] [Satin Nickel].
- Champagne locks are standard on unfinished units; White locks are standard on factory prefinished white units.

### Optional Products

#### Grilles

- Simulated-Divided-Light [with optional spacer]
  - 7/8" Grilles permanently bonded to the interior and exterior of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
  - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain<sub>1</sub>]]. Exterior grilles to match the exterior cladding color.
  - Available only on units glazed with Low-E insulated glass with argon.  
- or -
- Grilles-Between-the-Glass<sub>2</sub>
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Custom - Equally Divided].
  - Interior color is [White] [Ivory] [Tan<sub>3</sub>] [Brickstone] [Black] [Putty<sub>3</sub>] [Brown<sub>3</sub>] [Harvest] [Cordovan].
  - Exterior color [matched to the exterior cladding color] [White]<sub>4</sub>.  
- or -
- Roomside Removable Grilles
  - 3/4" [Traditional] [Custom - Equally Divided] removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
  - Interior [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain<sub>1</sub>]].
  - Exterior [unfinished, ready for site finishing] [factory primed] [factory prefinished, finish color matched to exterior cladding] [White]<sub>4</sub>.

#### Screens

- InView™ screens
  - Full-size Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match window cladding.  
- or -
- Vivid View® screens
  - Full-size PVDF 21/17 mesh, minimum 78 percent light transmissive screen, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, color to match window cladding.

#### Hardware

- Optional factory applied limited opening device available for vent units in steel, nominal 3-3/4" opening.
- Optional window opening control device available for field installation. 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.

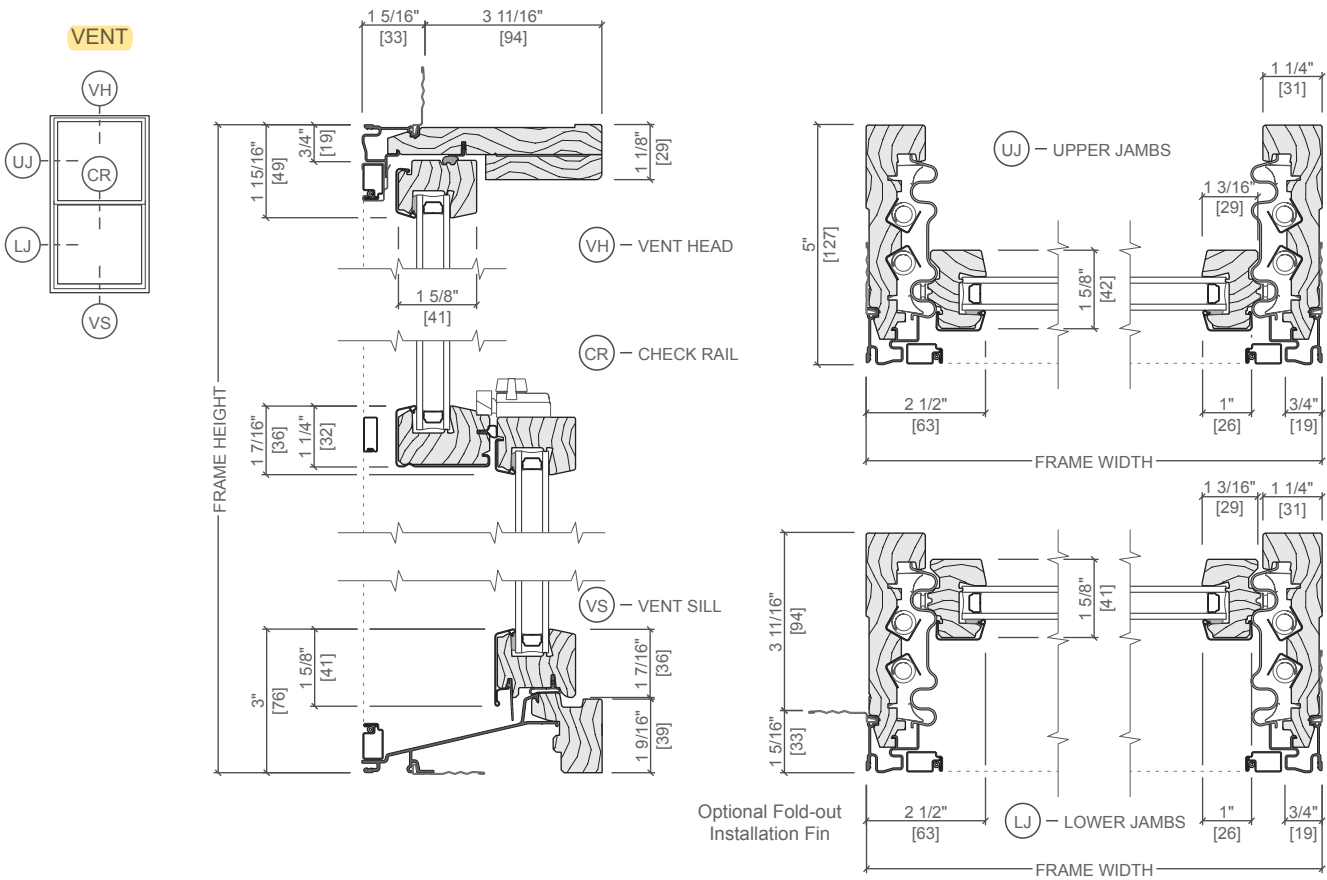
#### Sensors

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

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



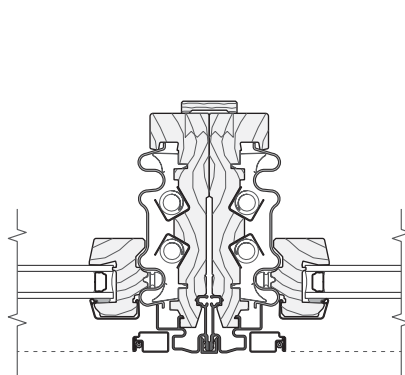
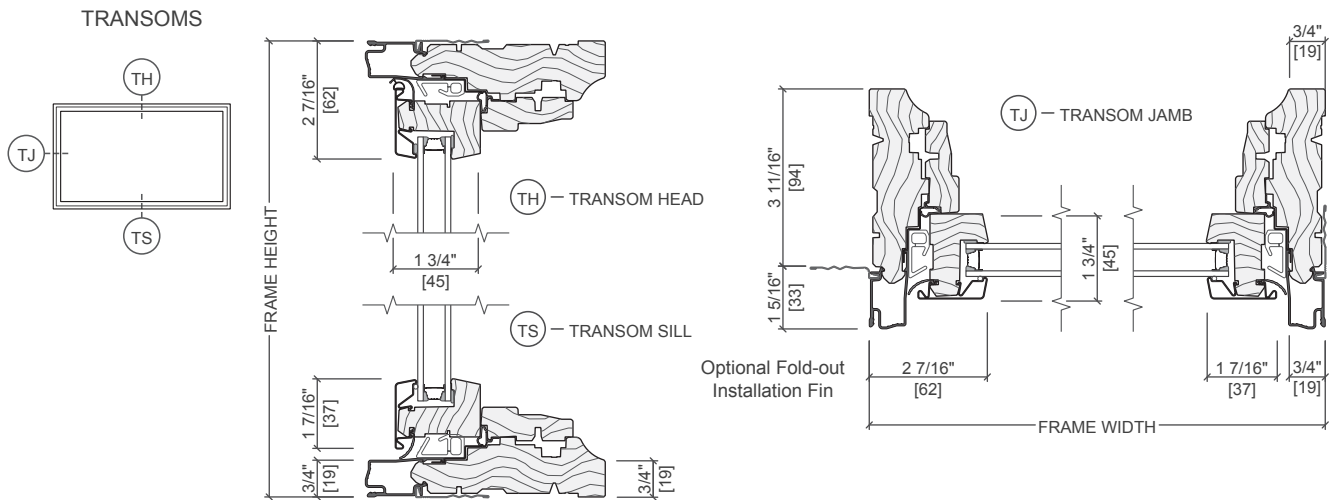
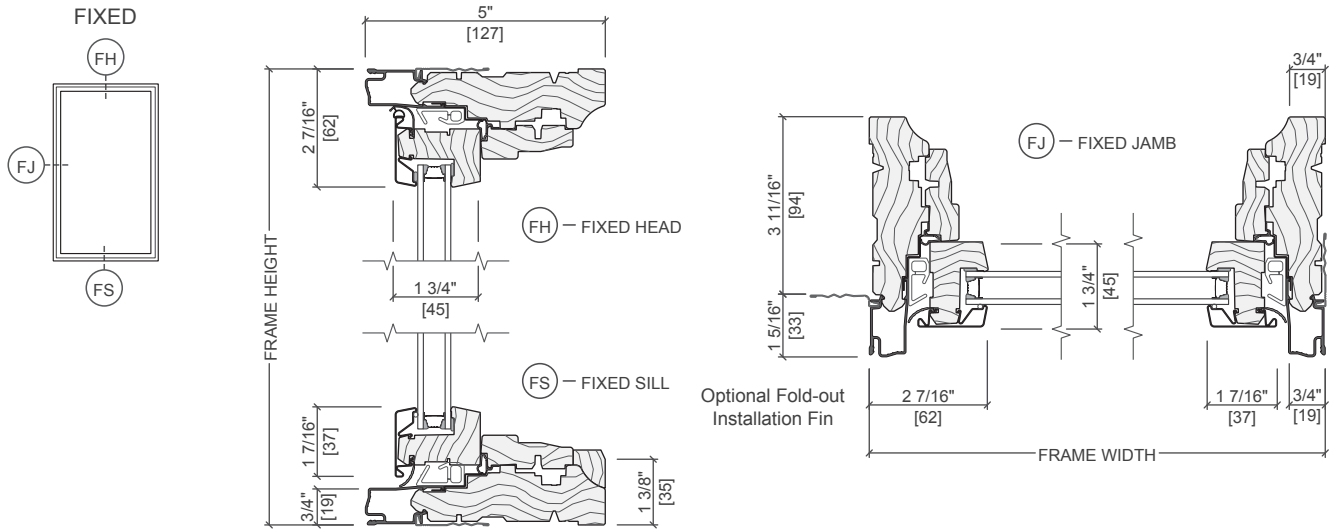
Unit Sections



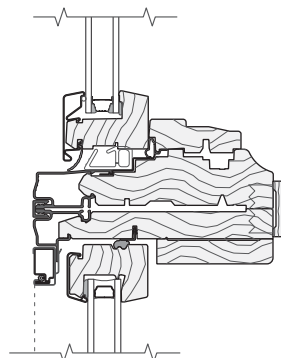
Scale 3" = 1' 0"  
All dimensions are approximate.



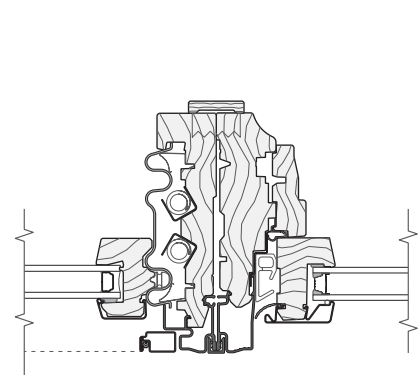
Unit Sections



VERTICAL JOINING MULLION  
VENT / VENT



HORIZONTAL JOINING MULLION  
TRANSOM / VENT



VERTICAL JOINING MULLION  
VENT / FIXED

Scale 3" = 1' 0"

All dimensions are approximate.

See [www.Pella.com](http://www.Pella.com) for mullion limitations and reinforcing requirements.



