

# VALENTINE RESIDENCE

**ARCHITECT**  
 PENINSULA ARCHITECTS  
 1775 MAIN STREET, PENINSULA, OH 44264  
 T: 330.657.2800  
 CONTACT: NIK SIRNA

**BUILDER**

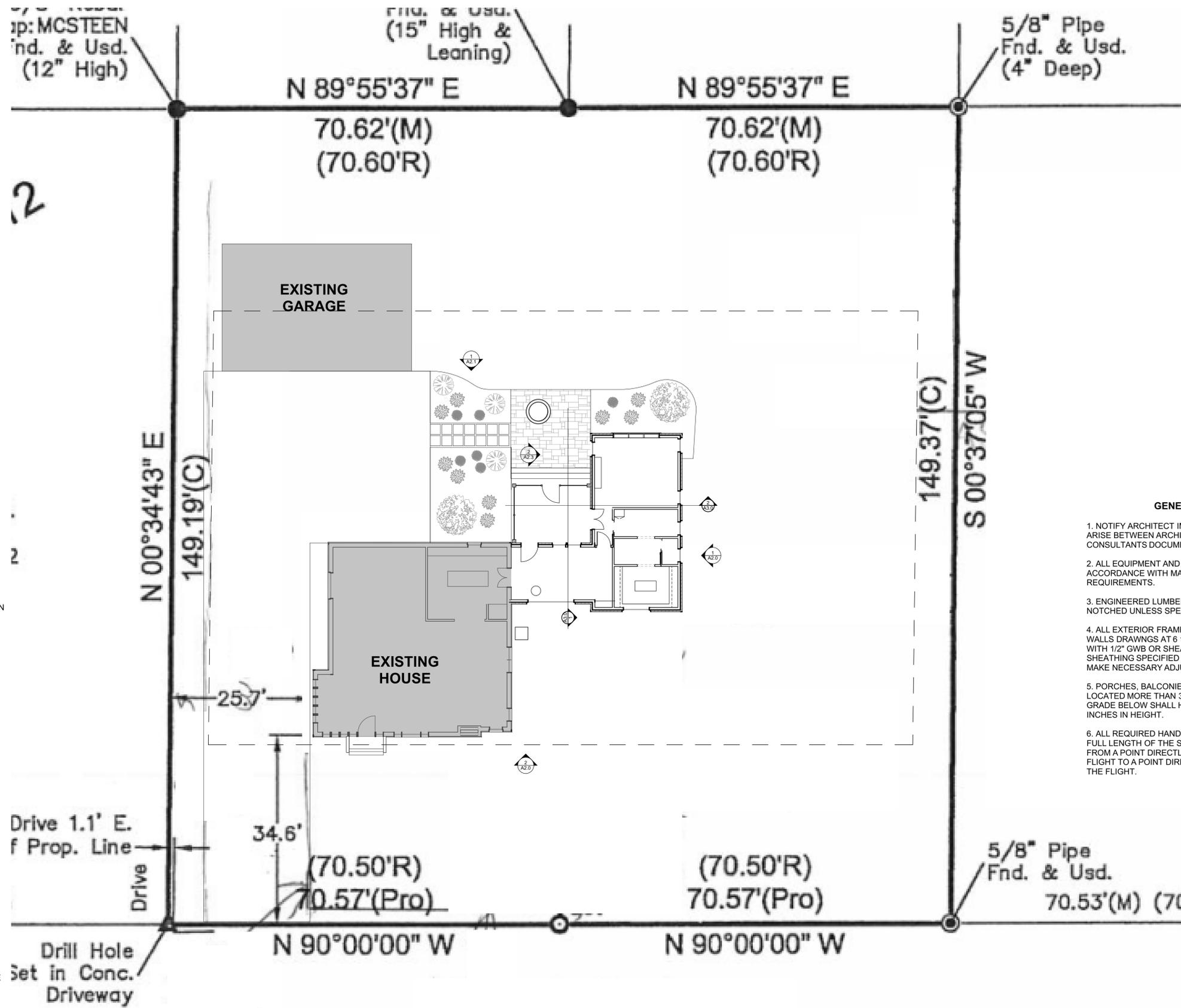
**GENERAL INFORMATION**  
 FIRST FLOOR: 1,362 SF  
 SECOND FLOOR: 720 SF  
 TOTAL BUILDING AREA: 2,082 SF  
 ADDITION SF: 820 SF  
 SCREEN PORCH SF: 180 SF  
 HUDSON ZONING DISTRICT  
 CLASSIFICATION: R-4 HISTORIC DISTRICT

**ABBREVIATIONS:**

ADA AMERICANS WITH DISABILITIES ACT  
 AFF ABOVE FINISHED FLOOR  
 ALT. ALTERNATE  
 ANSI AMERICAN NATIONAL STANDARDS INSTITUTE  
 APPROX. APPROXIMATELY  
 BHMA BUILDERS HARDWARE MANUFACTURERS ASSOCIATION  
 CMU CONCRETE MASONRY UNIT  
 CONC. CONCRETE  
 DS DOWNSPOUT  
 ENG. HRWD ENGINEERED HARDWOOD  
 EWC ELECTRIC WATER COOLER  
 EXST. EXISTING  
 FIN. FINISHED  
 FIN. FL. FINISHED FLOOR  
 GA GAGE  
 GYP. BD. GYPSUM BOARD  
 HDWR. HARDWARE  
 HM HOLLOW METAL  
 HVAC HEATING, VENTILATION, AND AIR CONDITIONING  
 MAX. MAXIMUM  
 MIN. MINIMUM  
 N.I.C. NOT IN CONTRACT  
 NTS NOT TO SCALE  
 O/ OVER  
 O.C. ON CENTER  
 OPP. OPPOSITE  
 P. LAM PLASTIC LAMINATE  
 REQ'D REQUIRED  
 S.C. SOLID CORE  
 SIM. SIMILAR  
 SS STAINLESS STEEL  
 TYP TYPICAL  
 VOC VOLATILE ORGANIC COMPOUND  
 W/ WITH  
 WWF WELDED WIRE FABRIC

**SYMBOLS:**

D3 A2.2 DETAIL  
 D3 A2.2 ELEVATION  
 D3 A2.2 SECTION  
 WALL TYPE  
 WINDOW TYPE  
 KEY NOTE



**GENERAL NOTES:**

1. NOTIFY ARCHITECT IMMEDIATELY WHERE CONFLICTS MAY ARISE BETWEEN ARCHITECTS DOCUMENTS AND OWNER'S CONSULTANTS DOCUMENTS
2. ALL EQUIPMENT AND APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
3. ENGINEERED LUMBER SHALL NOT BE CUT, DRILLED, OR NOTCHED UNLESS SPECIFIED.
4. ALL EXTERIOR FRAME WALLS TO BE 2x6 STUDS AT 16" O.C. WALLS DRAWINGS AT 6 1/2", ASSUMED 2x6 STUD WALLS WITH 1/2" GWB OR SHEATHING BOTH SIDES. IF GWB OR SHEATHING SPECIFIED DIFFERS FROM CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS AT CRITICAL DIMENSIONS.
5. PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT.
6. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS WITH FOUR OR MORE RISERS FROM A POINT DIRECTLY ABOVE THE TOP RISER OF A FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE FLIGHT.

**PENINSULA ARCHITECTS**  
 P.O. Box 205 | 1775 Main Street  
 Peninsula, OH 44264  
 v: 330.657.2800 | f: 330.657.2419  
 www.pa-architects.com

NOT FOR CONSTRUCTION

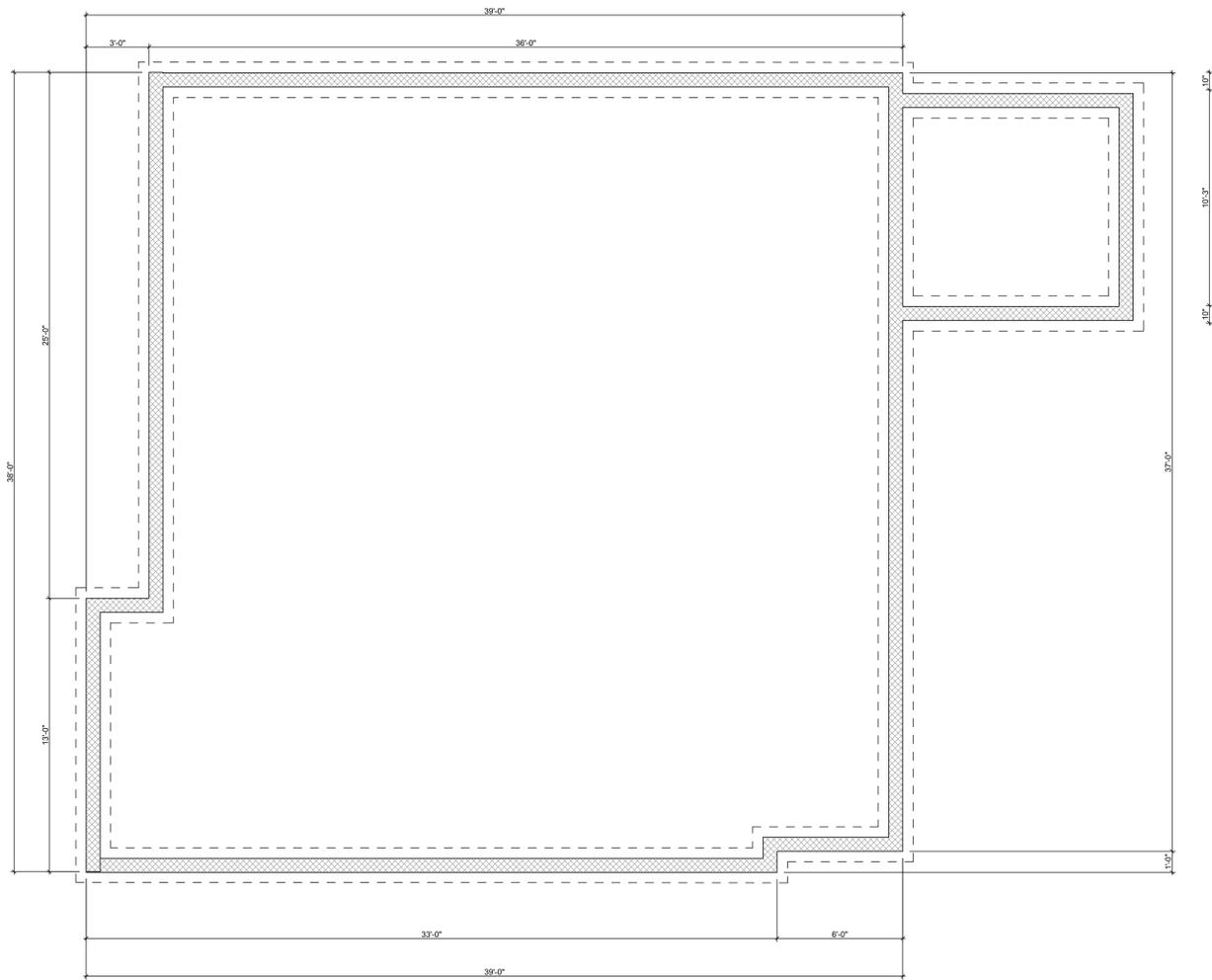
**VALENTINE RESIDENCE**  
 81 EAST STREETSBORO STREET  
 HUDSON, OHIO 44236

DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
08/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

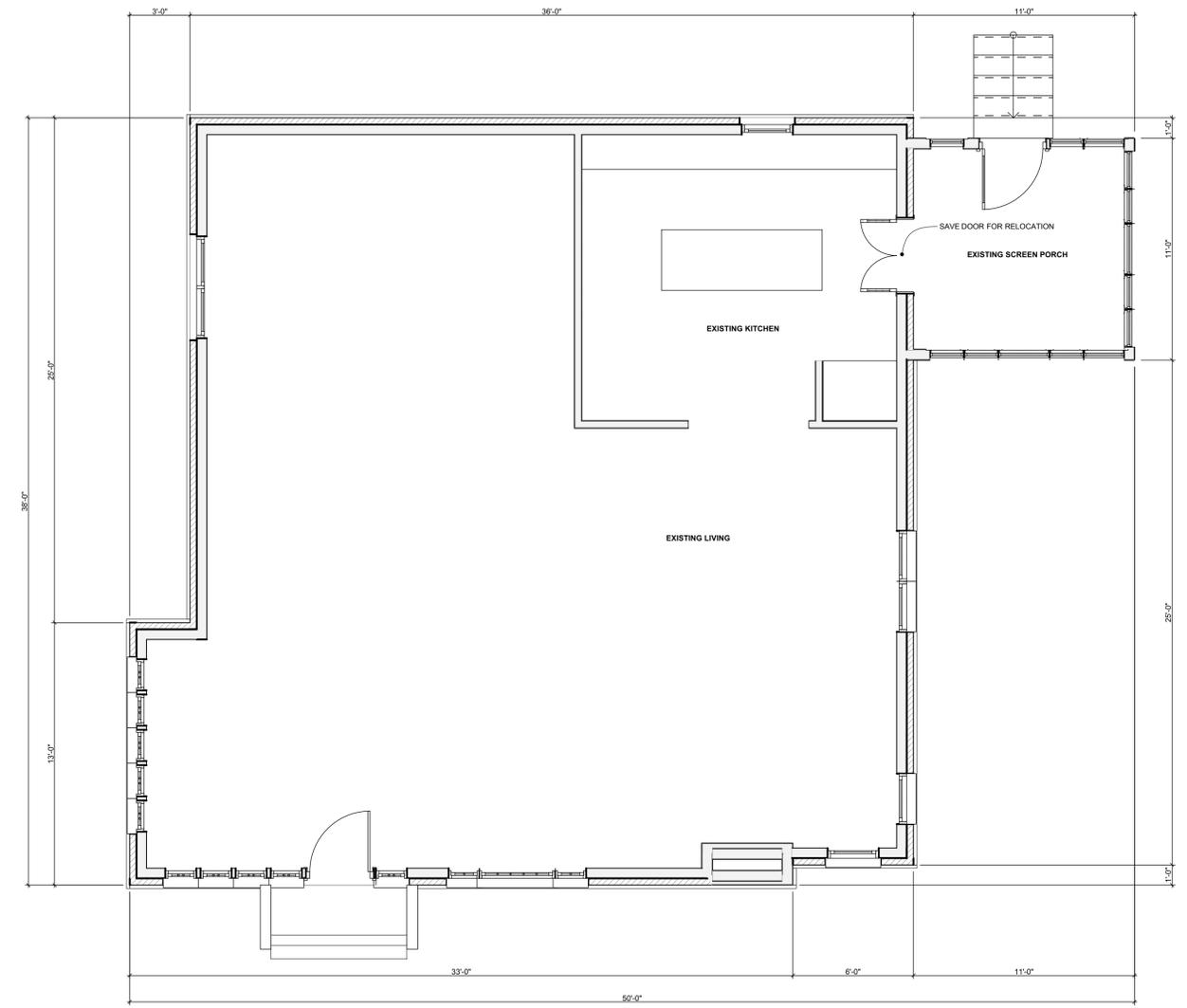
SCALE AS NOTED

TITLE SHEET

TS1.00



**1** EXISTING LOWER PLAN  
SCALE: 1/4" = 1'-0"  
0 2 4 8



**2** EXISTING FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"  
0 2 4 8

NOT FOR CONSTRUCTION

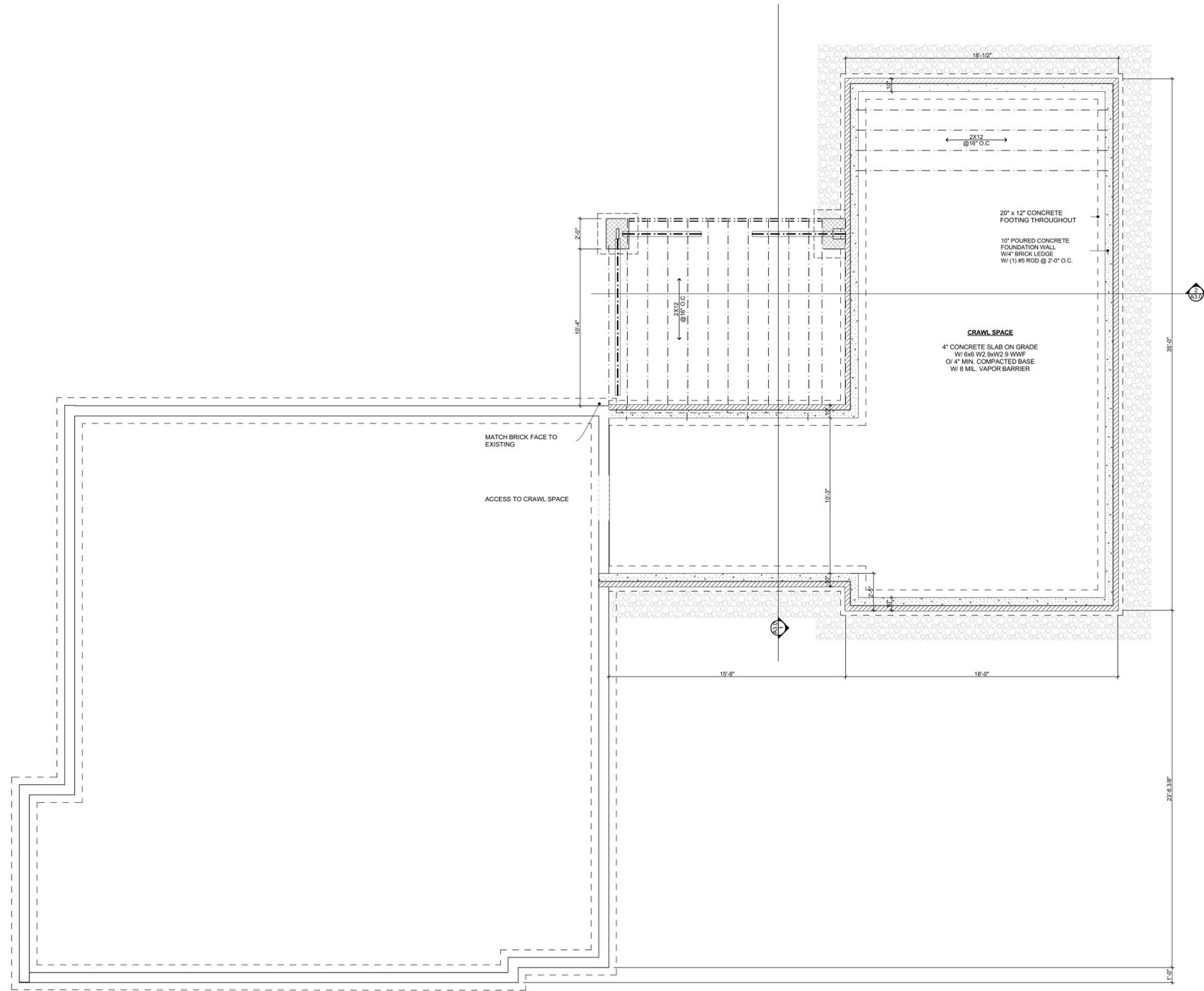
**VALENTINE RESIDENCE**  
81 EAST STREETSBORO STREET  
HUDSON, OHIO 44236

PROJECT #	2018
DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
09/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

SCALE AS NOTED

EXISTING FLOOR PLANS

**A0.0**



1

**FOUNDATION PLAN**

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



NOT FOR CONSTRUCTION

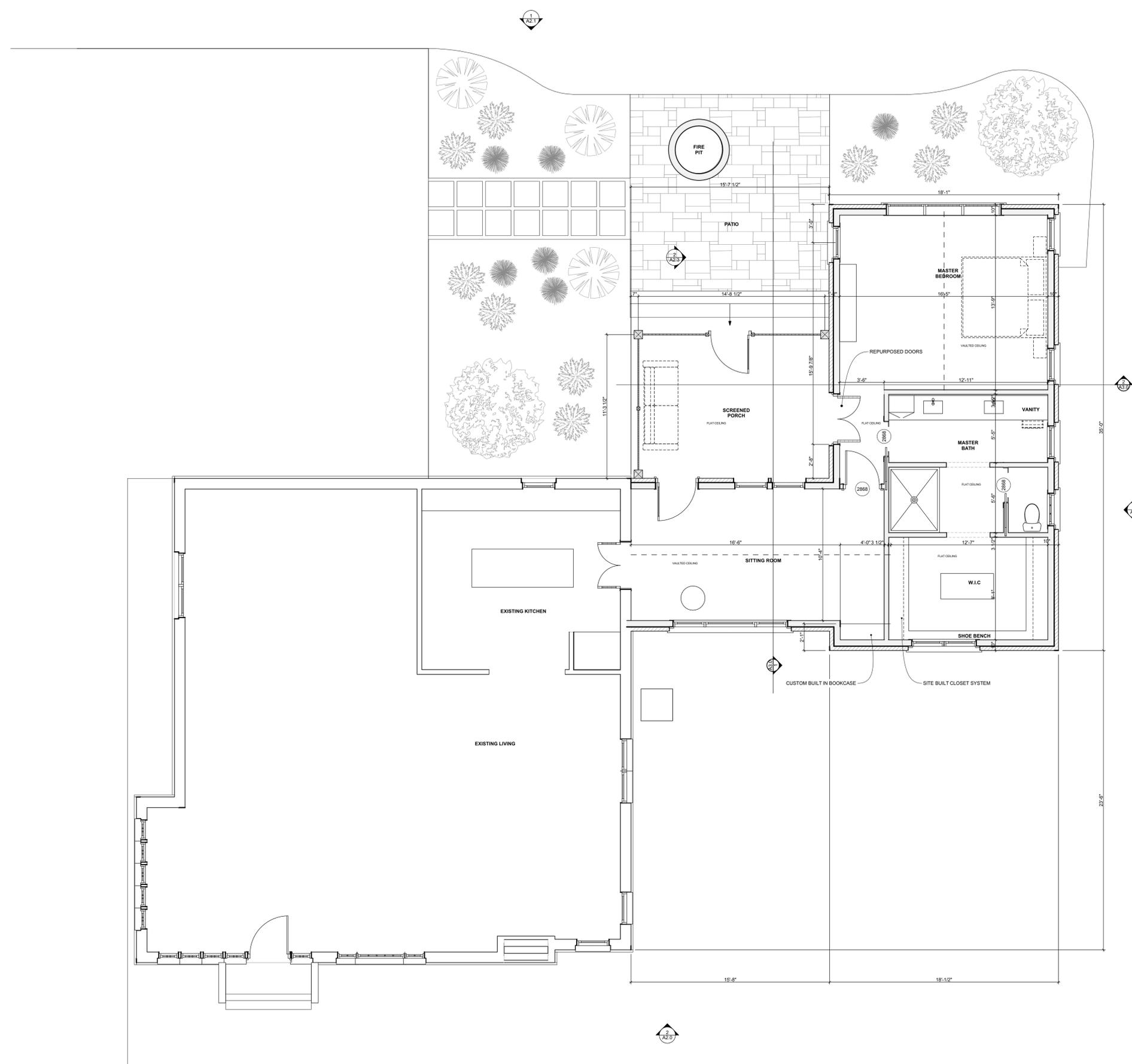
**VALENTINE RESIDENCE**  
 81 EAST STREETSBORO STREET  
 HUDSON, OHIO 44236

PROJECT #	2018
DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
09/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

SCALE AS NOTED

FOUNDATION PLAN

**A0.1**



**1 FIRST FLOOR**  
SCALE: 1/4" = 1'-0"



NOT FOR CONSTRUCTION

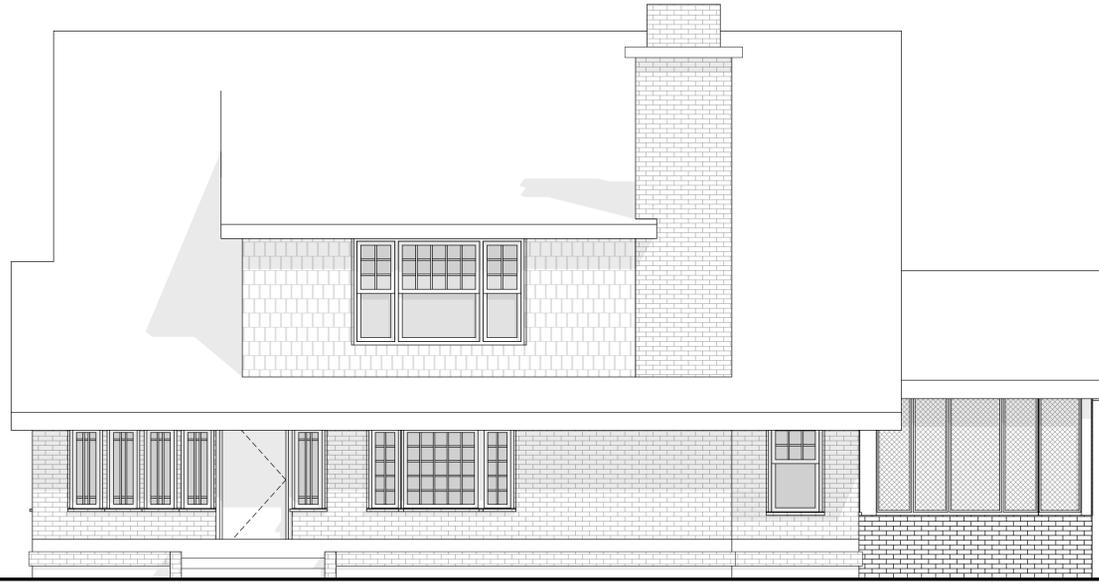
**VALENTINE RESIDENCE**  
81 EAST STREETSBORO STREET  
HUDSON, OHIO 44236

PROJECT #	2018
DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
08/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

SCALE AS NOTED

FLOOR PLAN

**A1.0**



2 EXISTING FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



1 EXISTING SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



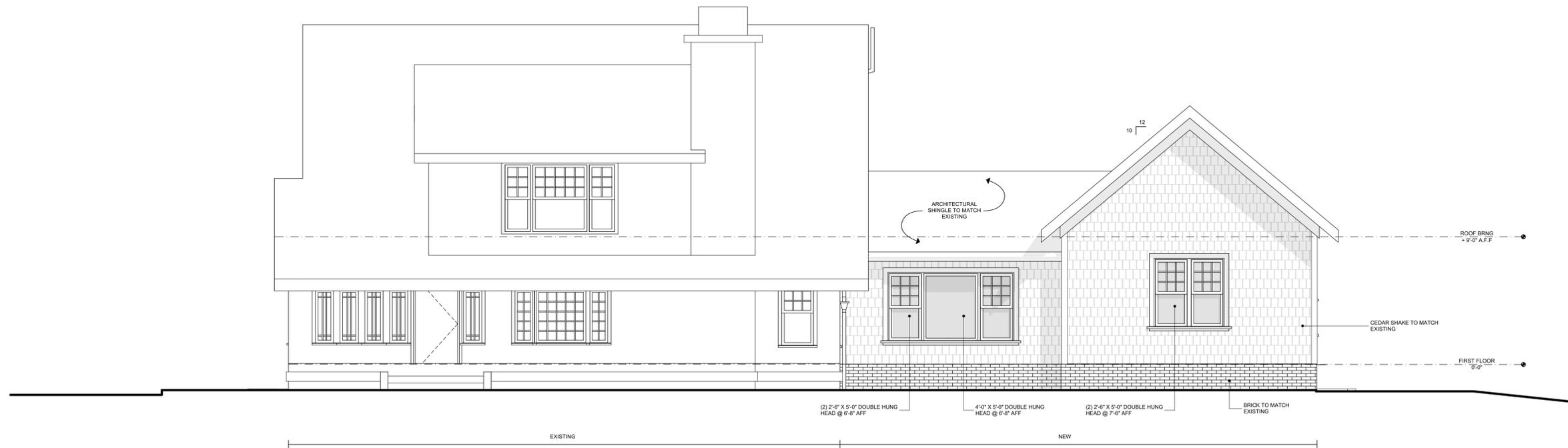
PROJECT #:	2018
------------	------

DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
08/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

SCALE	AS NOTED
-------	----------

EXISTING ELEVATIONS

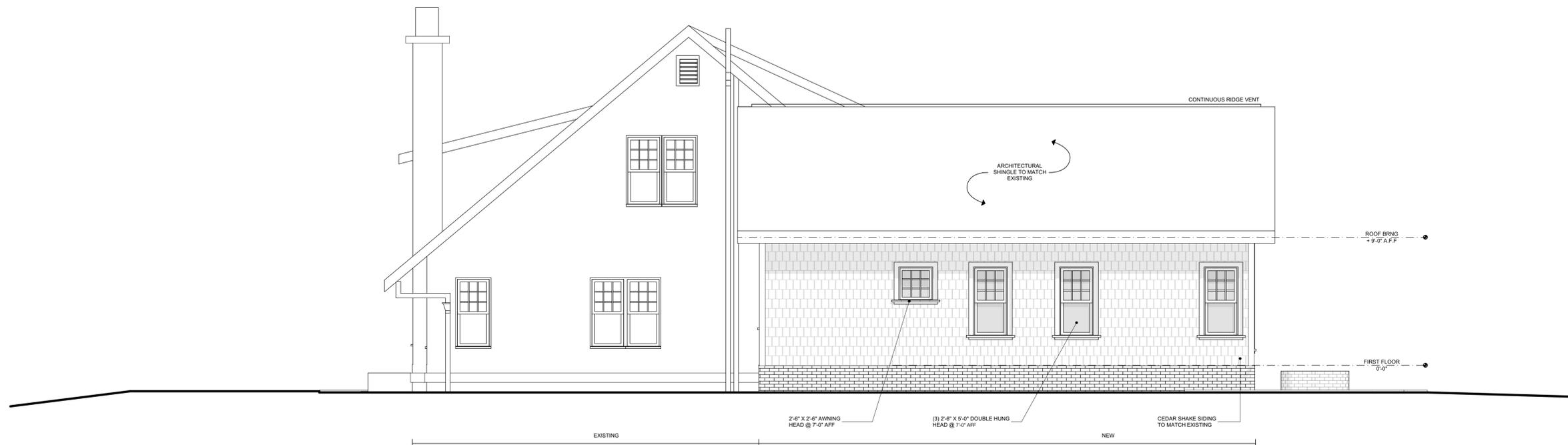




**1 FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"



GENERAL NOTES:  
TRIM PROFILES, MATERIALS, AND FINISH COLOR TO MATCH EXISTING HOUSE



**2 SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



PROJECT #	2018
DATE	ISSUE
06/15/2020	CONCEPTUAL PLANNING
07/10/2020	DESIGN REVISIONS
07/24/2020	DESIGN DEVELOPMENT
08/14/2020	FOR PERMIT
11/13/2020	FOR PERMIT
2/16/2021	REVISED PERMIT

SCALE AS NOTED

ELEVATIONS

**A2.2**







TruDefinition®  
**DURATION®**  
 Shingles with Patented SureNail® Technology



Colonial Slate†



**TOTAL PROTECTION. TOTAL CONFIDENCE.®**



**SEAL.**



**DEFEND.**



**BREATHE.**

# TruDefinition® **DURATION®**

Shingles with Patented SureNail® Technology

## **Bold contrast. Deep dimension. TruDefinition®.**

TruDefinition® Duration® Shingles are specially formulated to provide great contrast and dimension to any roof. Through the use of multiple granule colors and shadowing, TruDefinition® Duration® Shingles offer a truly unique and dramatic effect. This exclusive combination of color and depth is what makes TruDefinition® Duration® Shingles like no other.

TruDefinition® Duration® Shingles are available in popular colors with bold, lively contrast and complementing shadow lines for greater dimension. They feature a Limited Lifetime Warranty\*/\*\* (for as long as you own your home) and a 130-MPH Wind Resistance Limited Warranty\*. TruDefinition® Duration® Shingles are produced with StreakGuard™ Protection to inhibit the growth of airborne blue-green algae\* that can cause unsightly dark streaks on your roof. Owens Corning provides a 10-year Algae Resistance Limited Warranty.\* Beyond the outstanding curb appeal and impressive warranty coverage, they also come with the advanced performance of patented SureNail® Technology.



Teak† ▼



### **The SureNail® Difference—**

**A technological breakthrough in roofing.** The innovative features of

Owens Corning® TruDefinition® Duration® Shingles with patented SureNail® Technology offer the following:

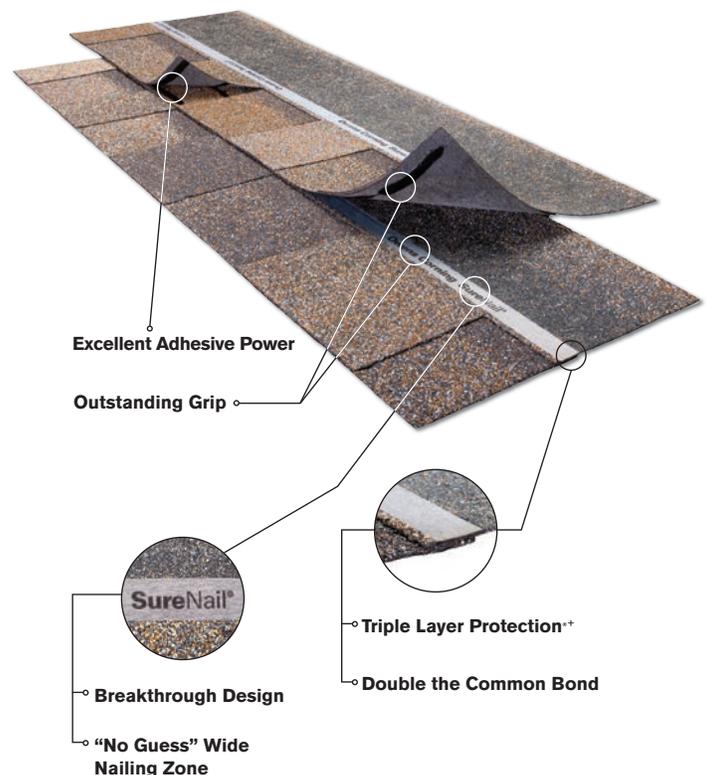
**Breakthrough Design.** Featuring a tough, woven engineered reinforcing fabric to deliver consistent fastening during installation.

**Triple Layer Protection.** A unique “triple layer” of reinforcement occurs when the fabric overlays the common bond of the shingle laminate layers that offers excellent fastener holding power.

**Outstanding Grip.** Our enhanced Tru-Bond®\* sealant grips tightly to the engineered fabric nailing strip on the shingle below.

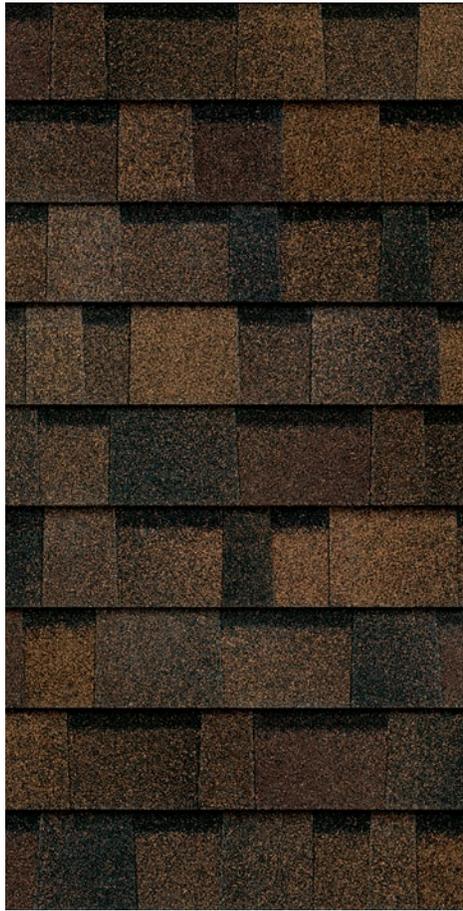
**Excellent Adhesive Power.** Specially formulated, wide adhesive bands help keep shingle layers laminated together.

**Exceptional Wind Resistance.** Engineered to deliver 130-MPH\* wind warranty performance with only 4 nails. Fewer nails required can mean fewer deck penetrations.

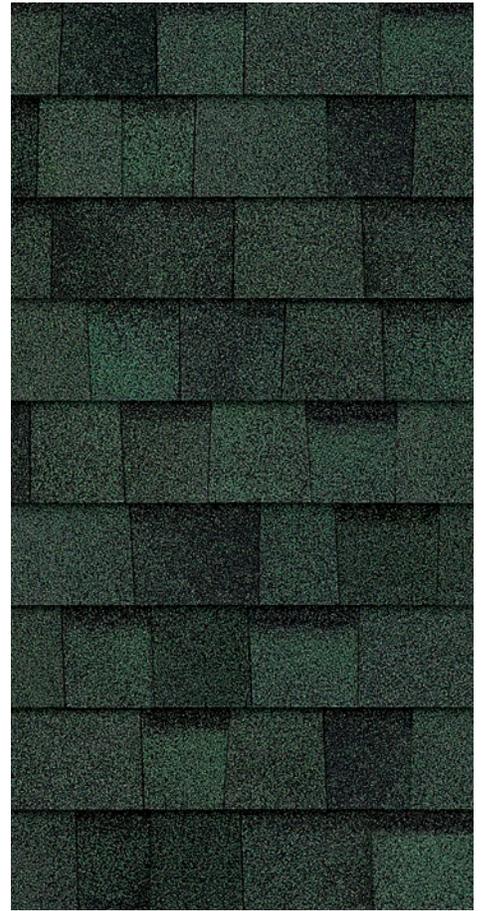




Amber†



Brownwood†



Chateau Green†



Colonial



Onyx Black†



Quarry Gray†



Shasta White†



Sierra G



Slate†



Desert Tan†



Driftwood†



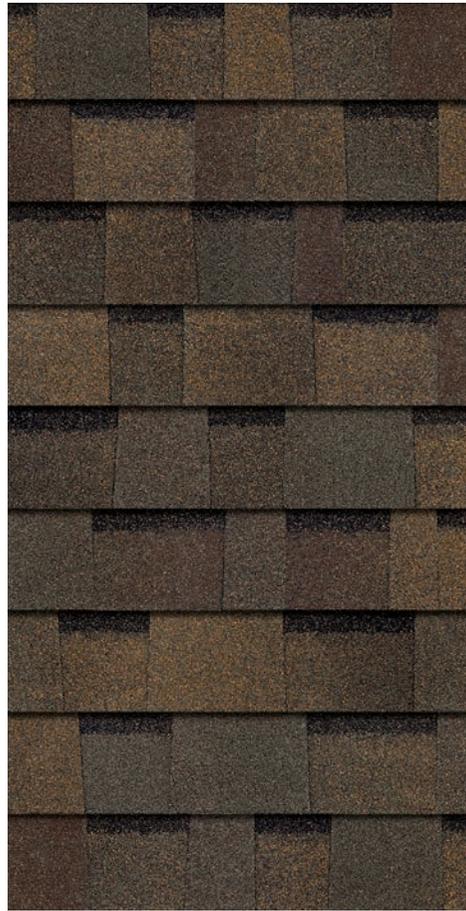
Estate Gray†



Gray†



Slatestone Gray†



Teak†



Terra Cotta†



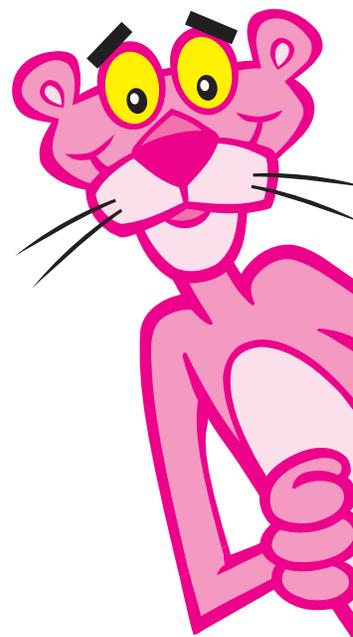
ay†



Harbor Blue†



a†



# ENERGY STAR® IS FOR ROOFS TOO



Similar to the energy-efficient appliances in your home, roofing products can help provide energy-saving qualities. Owens Corning® ENERGY STAR® qualified shingles can help reduce your heating and cooling bills when installed properly. These shingles reflect solar energy, helping to decrease the amount of heat transferred to a home's interior — and the amount of air conditioning needed to keep it comfortable. Actual savings will vary based on geographic location and individual building characteristics. Call 1-800-GET-PINK® or 1-888-STAR-YES for more information.

## Product Attributes

### Warranty Length\*

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

### Wind Resistance Limited Warranty\*

130 MPH

### Algae Resistance Limited Warranty\*

10 Years

### TRU PROtection® Non-Prorated Limited Warranty\* Period

10 Years



## TruDefinition® Duration® Shingles Product Specifications

Size	13 1/4" x 39 5/8"
Application Exposure	5 5/8"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

## Applicable Standards and Codes

ASTM D228

ASTM D3018 (Type 1)

ASTM D3161 (Class F Wind Resistance)

ASTM D3462

ASTM D7158 (Class H Wind Resistance)

ASTM E108/UL 790 (Class A Fire Resistance)

ICC-ES AC438\*

PRI ER 1378E01

Shasta White color meets ENERGY STAR® requirements for initial solar reflectance of 0.25 and 3-year aged solar reflectance of 0.15; 2013 California Building Energy Efficiency Standards, Title 24, Part 6 requirements; rated by the Cool Roof Rating Council (CRRC).

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

\*\* 2018 Roofing Brand Awareness Study by Owens Corning Roofing and Asphalt, LLC.

† Owens Corning Roofing strives to accurately reproduce photographs of shingles. Due to manufacturing variances, the limitations of the printing process and the variations in natural lighting, actual shingle colors and granule blends may vary from the photo. The pitch of your roof can also impact how a shingle looks on your home. We suggest that you view a roofing display or several shingles to get a better idea of the actual color. To accurately judge your shingle and color choice, we recommend that you view it on an actual roof with a pitch similar to your own roof prior to making your final selection. Color availability subject to change without notice. Ask your professional roofing contractor for samples of colors available in your area.

+ The amount of Triple Layer Protection® may vary on shingle-to-shingle basis.

‡ Tru-Bond® is a proprietary premium weathering-grade asphalt sealant that is blended by Owens Corning Roofing and Asphalt, LLC.

‡‡ 40-Year Limited Warranty on commercial projects.

Owens Corning Roofing Preferred Contractors are independent contractors and are not an affiliate of Owens Corning Roofing and Asphalt, LLC, or its affiliated companies.

For patent information, please visit [www.owenscorning.com/patents](http://www.owenscorning.com/patents).

SureNail® Technology is not a guarantee of performance in all weather conditions.

SureNail® Technology is available only on Owens Corning® Duration® Series Shingles.

ENERGY STAR and the ENERGY STAR mark are registered trademarks of the U.S. Environmental Protection Agency.

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

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



## HOME SWEET HOME

**Your home is your sanctuary.** It's the place where you want to feel the most comfortable. Safe. Protected. But no matter how much you love your house, it seems the work is never completely done. And if purchasing a new roof is on your to-do list, it may seem like a daunting task — especially if your roof is already damaged or leaking. Since a roof plays such an important role in protecting you and your family from the elements, you realize that you can't let the damage get out of hand.

Don't worry, we know that a roof replacement project is a big, important decision. You can feel confident about choosing our roofing products — Owens Corning has been a recognized leader in the building industry for over 75 years. In fact, we're America's most trusted roofing brand.\*\* Not only can we help you choose the right shingle and roofing system components, we can also help you select the right contractor for the job — an Owens Corning Roofing Preferred Contractor.

Together we can make this a positive experience — an opportunity, really. This is your chance to choose a roof that not only has outstanding performance, but also has exceptional beauty. So for years to come, you'll feel great every time you pull in the driveway.

**Protected. Proud. Home.**





# Total Protection Roofing System<sup>® ^</sup>

## TOTAL PROTECTION SIMPLIFIED™



Owens Corning® Total Protection Roofing System<sup>® ^</sup> integrates engineered Owens Corning® components that work together to address these three primary performance areas, critical to a high-performance roof, while also making it easy to understand the importance of each. **With Owens Corning, it's easy to confidently deliver total protection, beauty and peace of mind.**



### SEAL.

SELF-ADHERED ICE & WATER BARRIER  
SYNTHETIC UNDERLAYMENT



### DEFEND.

STARTER SHINGLES  
LAMINATE SHINGLES  
HIP & RIDGE SHINGLES



### BREATHE.

INTAKE VENTS  
EXHAUST VENTS

### + COMFORT.

PINK® FIBERGLAS™  
BLOWN-IN  
ATTIC INSULATION



**OWENS CORNING ROOFING AND ASPHALT, LLC**  
ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO, USA 43659  
**1-800-GET-PINK®**  
[www.owenscorning.com/roofing](http://www.owenscorning.com/roofing)

Pub. No. 10013980-I. Printed in U.S.A. May 2020.  
THE PINK PANTHER™ & © 1964–2020 Metro-Goldwyn-Mayer Studios Inc.  
All Rights Reserved. The color PINK is a registered trademark of Owens Corning.  
© 2020 Owens Corning. All Rights Reserved.

(Brookville, Kearny, Medina, Minneapolis, Summit)





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	
Grille Profiles and Patterns .....	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 Descriptions.....	LS-DH-27
Unit Sections .....	LS-DH-28

---

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.



# Lifestyle Series Double-Hung

## 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 Hallmark Certified
Air Infiltration (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 (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 Double-Hung	37" x 59"	1 1/16"	2.5mm	2.5mm	–	27	23
	37" x 59"	1 1/16"	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.



# Lifestyle Series Double-Hung

## 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 <sub>1</sub>
<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 <sub>1</sub>	–
<b>Interior<sub>1</sub></b>	
Unfinished wood	Factory primed
	Factory prefinished paint <sub>1</sub>
	Factory prefinished stain <sub>1</sub>
<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 <sub>2</sub>
<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<sub>3</sub></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.



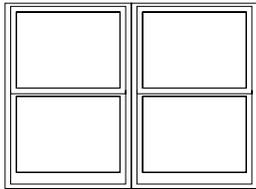
# Lifestyle Series Double-Hung

## Combination Assemblies

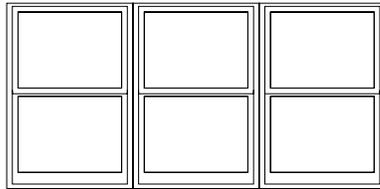
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

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 and requirements and limitations related to mulling various combinations.

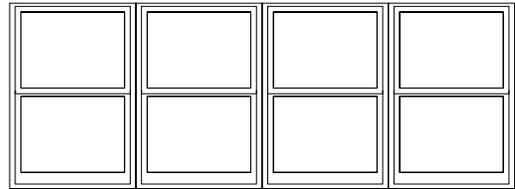
Contact your local Pella sales representative for more information.



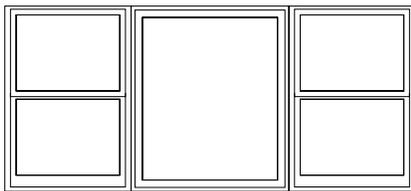
Two-Wide



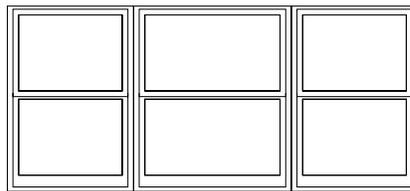
Three-Wide Equal



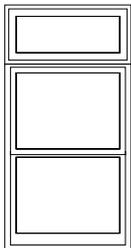
Four-Wide Equal



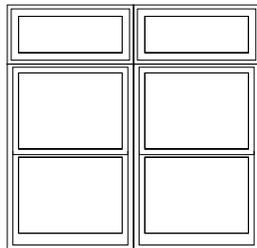
Center Fixed with Flankers



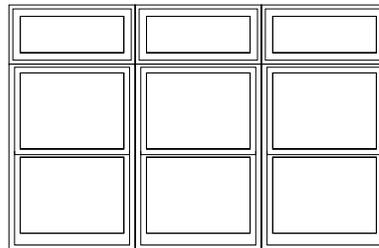
Three-Wide Unequal



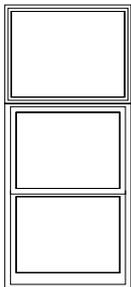
Transom over Single



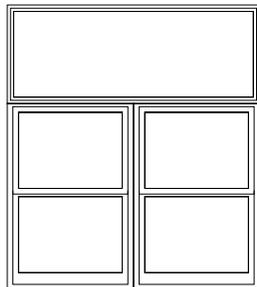
Two-Wide Transoms over Two-Wide



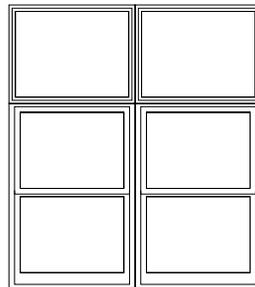
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide



Click to view Clad-Wood Combinations Sections

- [Combination Recommendations Downloadable PDF.](#)



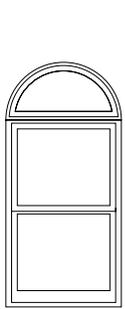
# Lifestyle Series Double-Hung

## Combination Assemblies

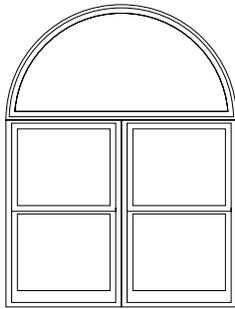
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

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



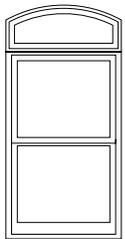
Half Circle over Two-Wide



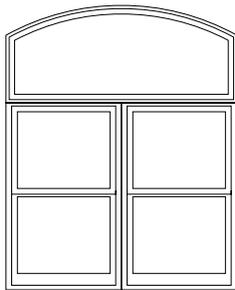
Left Quarter Circle over Single



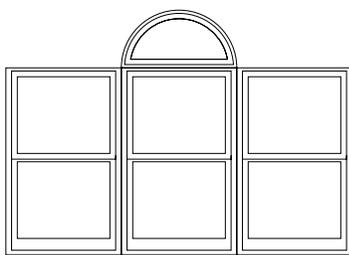
Right Quarter Circle over Single



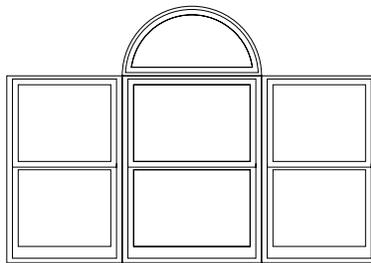
Arch Head over Single



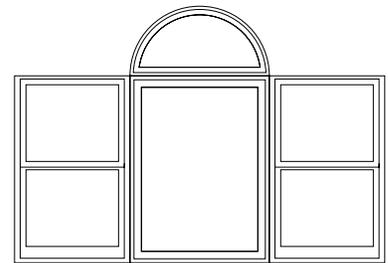
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers



Click to view Clad-Wood Combinations Sections

- [Combination Recommendations Downloadable PDF.](#)



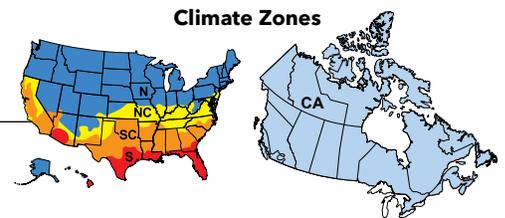
# Lifestyle Series Double-Hung

## 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 Vent										N	NC	SC	S	CA		
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.





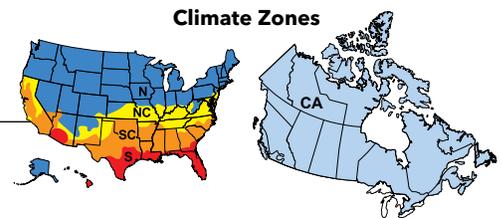
# Lifestyle Series Double-Hung

## 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 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						

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.





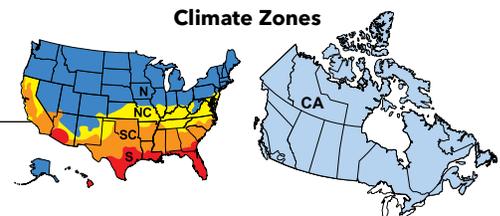
# Lifestyle Series Double-Hung

## 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										N	NC	SC	S	CA		
11/16"	Advanced Low-E IG	PEL-N-22-00624-00001	2.5	2.5	Argon	0.28	0.31	0.58	58		NC					
	with grilles-between-the-glass	PEL-N-22-00656-00001				0.28	0.28	0.52	58		NC					
	with Simulated Divided Light	PEL-N-22-00688-00001				0.29	0.28	0.52	58		NC					
11/16"	Advanced Low-E IG	PEL-N-22-00624-00002	3	3	Argon	0.28	0.31	0.58	58		NC					
	with grilles-between-the-glass	PEL-N-22-00656-00002				0.28	0.28	0.52	58		NC					
	with Simulated Divided Light	PEL-N-22-00688-00002				0.29	0.28	0.52	58		NC					
11/16"	Advanced Low-E IG	PEL-N-22-00648-00001	4	4	Argon	0.29	0.30	0.57	56		NC					
	with grilles-between-the-glass	PEL-N-22-00680-00001				0.30	0.27	0.51	56		NC					
	with Simulated Divided Light	PEL-N-22-00712-00001				0.29	0.27	0.51	56		NC					
11/16"	SunDefense™ Low-E IG	PEL-N-22-00627-00001	2.5	2.5	Argon	0.28	0.23	0.54	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-22-00659-00001				0.28	0.21	0.48	59		NC	SC	S			
	with Simulated Divided Light	PEL-N-22-00691-00001				0.28	0.21	0.48	59		NC	SC	S			
11/16"	SunDefense Low-E IG	PEL-N-22-00627-00002	3	3	Argon	0.28	0.23	0.53	59		NC	SC	S			
	with grilles-between-the-glass	PEL-N-22-00659-00002				0.28	0.21	0.48	59		NC	SC	S			
	with Simulated Divided Light	PEL-N-22-00691-00002				0.28	0.21	0.48	59		NC	SC	S			
11/16"	SunDefense Low-E IG	PEL-N-22-00652-00001	4	4	Argon	0.28	0.23	0.53	57		NC	SC	S			
	with grilles-between-the-glass	PEL-N-22-00684-00001				0.30	0.21	0.47	57		NC	SC	S			
	with Simulated Divided Light	PEL-N-22-00716-00001				0.29	0.21	0.47	57		NC	SC	S			
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00625-00001	2.5	2.5	Argon	0.24	0.30	0.57	46	N	NC					
	with grilles-between-the-glass	PEL-N-22-00657-00001				0.24	0.27	0.51	46	N	NC					
	with Simulated Divided Light	PEL-N-22-00689-00001				0.25	0.27	0.51	46	N	NC					
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00625-00002	3	3	Argon	0.24	0.30	0.56	46	N	NC					
	with grilles-between-the-glass	PEL-N-22-00657-00002				0.24	0.27	0.50	46	N	NC					
	with Simulated Divided Light	PEL-N-22-00689-00002				0.25	0.27	0.50	46	N	NC					
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00650-00001	4	4	Argon	0.25	0.30	0.56	44	N	NC					
	with grilles-between-the-glass	PEL-N-22-00682-00001				0.26	0.27	0.50	44	N	NC					
	with Simulated Divided Light	PEL-N-22-00714-00001				0.26	0.27	0.50	44	N	NC					
11/16"	NaturalSun Low-E IG	PEL-N-22-00628-00001	2.5	2.5	Argon	0.29	0.58	0.66	58	N				37	CA	
	with grilles-between-the-glass	PEL-N-22-00660-00001				0.29	0.52	0.59	58	N				34	CA	
	with Simulated Divided Light	PEL-N-22-00692-00001				0.30	0.52	0.59	58	N				34	CA	
11/16"	NaturalSun Low-E IG	PEL-N-22-00628-00002	3	3	Argon	0.29	0.57	0.65	58	N				37	CA	
	with grilles-between-the-glass	PEL-N-22-00660-00002				0.29	0.51	0.58	58	N						
	with Simulated Divided Light	PEL-N-22-00692-00002				0.30	0.51	0.58	58	N						
11/16"	NaturalSun Low-E IG	PEL-N-22-00654-00001	4	4	Argon	0.30	0.55	0.65	56	N				35	CA	
	with grilles-between-the-glass	PEL-N-22-00686-00001				0.31	0.50	0.58	56	N						
	with Simulated Divided Light	PEL-N-22-00718-00001				0.30	0.50	0.58	56	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.





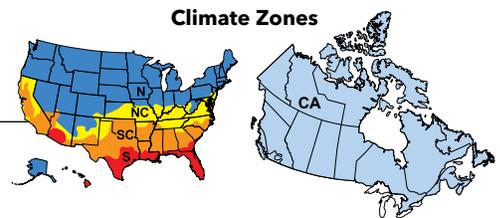
# Lifestyle Series Double-Hung

## 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 Low-E IG	PEL-N-22-00623-00001	2.5	2.5	Air	0.32	0.31	0.58	55						
	with grilles-between-the-glass	PEL-N-22-00655-00001				0.32	0.28	0.52	55						
	with Simulated Divided Light	PEL-N-22-00687-00001				0.32	0.28	0.52	55						
11/16"	Advanced Low-E IG	PEL-N-22-00623-00002	3	3	Air	0.32	0.31	0.58	55						
	with grilles-between-the-glass	PEL-N-22-00655-00002				0.32	0.28	0.52	55						
	with Simulated Divided Light	PEL-N-22-00687-00002				0.32	0.28	0.52	55						
11/16"	Advanced Low-E IG	PEL-N-22-00647-00001	4	4	Air	0.33	0.31	0.57	52						
	with grilles-between-the-glass	PEL-N-22-00679-00001				0.35	0.28	0.51	52						
	with Simulated Divided Light	PEL-N-22-00711-00001				0.34	0.28	0.51	52						
11/16"	SunDefense™ Low-E IG	PEL-N-22-00626-00001	2.5	2.5	Air	0.32	0.23	0.54	55				S		
	with grilles-between-the-glass	PEL-N-22-00658-00001				0.32	0.21	0.48	55				S		
	with Simulated Divided Light	PEL-N-22-00690-00001				0.32	0.21	0.48	55				S		
11/16"	SunDefense Low-E IG	PEL-N-22-00626-00002	3	3	Air	0.32	0.23	0.53	55				S		
	with grilles-between-the-glass	PEL-N-22-00658-00002				0.32	0.21	0.48	55				S		
	with Simulated Divided Light	PEL-N-22-00690-00002				0.32	0.21	0.48	55				S		
11/16"	SunDefense Low-E IG	PEL-N-22-00651-00001	4	4	Air	0.33	0.24	0.53	53				S		
	with grilles-between-the-glass	PEL-N-22-00683-00001				0.34	0.21	0.47	53				S		
	with Simulated Divided Light	PEL-N-22-00715-00001				0.34	0.21	0.47	53				S		
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00629-00002	2.5	2.5	Air	0.27	0.30	0.57	42	N	NC				
	with grilles-between-the-glass	PEL-N-22-00661-00002				0.27	0.27	0.51	42	N	NC				
	with Simulated Divided Light	PEL-N-22-00693-00002				0.28	0.27	0.51	42		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00629-00001	3	3	Air	0.27	0.30	0.56	42	N	NC				
	with grilles-between-the-glass	PEL-N-22-00661-00001				0.27	0.27	0.50	42	N	NC				
	with Simulated Divided Light	PEL-N-22-00693-00001				0.28	0.27	0.50	42		NC				
11/16"	AdvancedComfort Low-E IG	PEL-N-22-00649-00001	4	4	Air	0.28	0.30	0.56	40		NC				
	with grilles-between-the-glass	PEL-N-22-00681-00001				0.29	0.27	0.50	40		NC				
	with Simulated Divided Light	PEL-N-22-00713-00001				0.30	0.27	0.50	40		NC				
11/16"	NaturalSun Low-E IG	PEL-N-22-00630-00002	2.5	2.5	Air	0.33	0.58	0.66	54						
	with grilles-between-the-glass	PEL-N-22-00662-00002				0.33	0.52	0.59	54						
	with Simulated Divided Light	PEL-N-22-00694-00002				0.33	0.52	0.59	54						
11/16"	NaturalSun Low-E IG	PEL-N-22-00630-00001	3	3	Air	0.33	0.56	0.65	54						
	with grilles-between-the-glass	PEL-N-22-00662-00001				0.33	0.51	0.58	54						
	with Simulated Divided Light	PEL-N-22-00694-00001				0.33	0.51	0.58	54						
11/16"	NaturalSun Low-E IG	PEL-N-22-00653-00001	4	4	Air	0.34	0.55	0.65	52						
	with grilles-between-the-glass	PEL-N-22-00685-00001				0.36	0.49	0.58	52						
	with Simulated Divided Light	PEL-N-22-00717-00001				0.35	0.49	0.58	52						

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

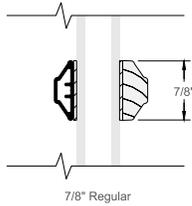
(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.  
 (2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.  
 See the Product Performance section for more detailed information or visit [www.energystar.gov](http://www.energystar.gov) for Energy Star guidelines.



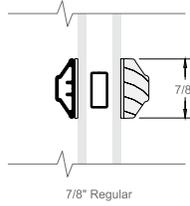


Grille Profiles

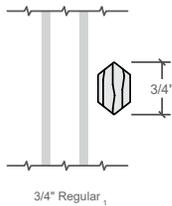
Simulated-Divided-Light Grilles



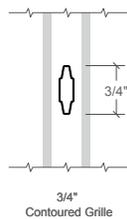
Simulated-Divided-Light Grilles with optional spacer



Roomside Removable Grilles

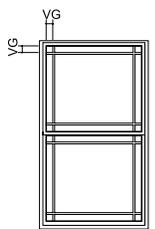


Grilles-Between-the-Glass

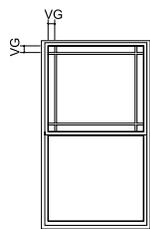


Grille Patterns

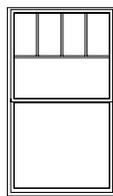
Grilles-Between-the-Glass and Simulated-Divided-Light Grilles



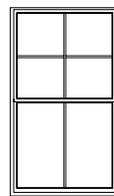
9-Lite Prairie



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.



# Lifestyle Series Double-Hung

## Size Tables - Double-Hung with Removable Grilles

### Vent Units

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (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) (889)						
(1 060) (1 041)						
(1 213) (1 194)						
(1 365) (1 346)						
(1 467) (1 448)						
(1 517) (1 499)						
(1 670) (1 651)						
(1 822) (1 803)						
(1 975) (1 956)						

**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.



# Lifestyle Series Double-Hung

## Size Tables - Fixed and Transoms with Removable Grilles

### Transoms

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

### Fixed Units

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (1 499)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (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	 4159	 4759	 5359	 5959
3' 5 3/4"	 4141	 4741	 5341	 5941	 4165	 4765	 5365	 5965
3' 11 3/4"	 4147	 4747	 5347	 5947	 4171	 4771	 5371	 5971
4' 5 3/4"	 4153	 4753	 5353	 5953				
4' 9 3/4"	 4157	 4757	 5357	 5957				

Not to scale.

Traditional grille patterns shown.

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



# Lifestyle Series Double-Hung

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

### Vent Units

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (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) (889)						
(1 060) (1 041)						
(1 213) (1 194)						
(1 365) (1 346)						
(1 467) (1 448)						
(1 517) (1 499)						
(1 670) (1 651)						
(1 822) (1 803)						
(1 975) (1 956)						

**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.  
 (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.



# Lifestyle Series Double-Hung

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

### Transoms

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (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"
2' 5 3/4"	2114	2514	2914	3314	3714	4114
2' 1 3/4"	2117	2517	2917	3317	3717	4117
2' 1"	2121					
2' 1 3/4"	2125	2525	2925	3325	3725	4125
2' 5 3/4"			2929			

### Fixed Units

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

Not to scale.

Traditional grille patterns shown.

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



# Lifestyle Series Double-Hung

## Size Tables - Replacement Sizes with Removable Grilles

### Transoms

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

### Vent Units

(921) (902)	 23.5 x 35.5	 27.5 x 35.5	 29.5 x 35.5	 31.5 x 35.5	 35.5 x 35.5	 39.5 x 35.5	 41.5 x 35.5
(972) (953)	 23.5 x 37.5	 27.5 x 37.5	 29.5 x 37.5	 31.5 x 37.5	 35.5 x 37.5	 39.5 x 37.5	 41.5 x 37.5
(1 073) (1 054)	 23.5 x 41.5	 27.5 x 41.5	 29.5 x 41.5	 31.5 x 41.5	 35.5 x 41.5	 39.5 x 41.5	 41.5 x 41.5
(1 175) (1 156)	 23.5 x 45.5	 27.5 x 45.5	 29.5 x 45.5	 31.5 x 45.5	 35.5 x 45.5	 39.5 x 45.5	 41.5 x 45.5
(1 226) (1 206)	 23.5 x 47.5	 27.5 x 47.5	 29.5 x 47.5	 31.5 x 47.5	 35.5 x 47.5	 39.5 x 47.5	 41.5 x 47.5
(1 327) (1 308)	 23.5 x 51.5	 27.5 x 51.5	 29.5 x 51.5	 31.5 x 51.5	 35.5 x 51.5	 39.5 x 51.5	 41.5 x 51.5
(1 378) (1 359)	 23.5 x 53.5	 27.5 x 53.5	 29.5 x 53.5	 31.5 x 53.5	 35.5 x 53.5	 39.5 x 53.5	 41.5 x 53.5
(1 473) (1 461)	 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.

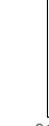
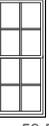
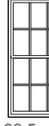
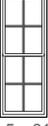
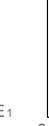
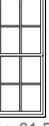
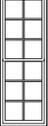
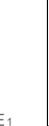
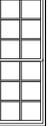
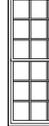
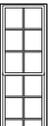
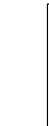
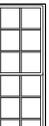
Not to scale.  
 Traditional grille patterns shown.



# Lifestyle Series Double-Hung

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

### Vent Units

	(616) (597)	(718) (699)	(762) (749)	(819) (800)	(921) (902)	(1 022) (1 003)	(1 073) (1 054)
Opening	2' 0 1/4"	2' 4 1/4"	2' 6 1/4"	2' 8 1/4"	3' 0 1/4"	3' 4 1/4"	3' 6 1/4"
Frame	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 3 1/2"	3' 5 1/2"
(1 530) (1 511)	 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
(1 581) (1 562)	 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
(1 683) (1 664)	 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
(1 835) (1 816)	 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>.

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 Sizes with Grilles-Between-the-Glass

### Transoms

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

### Vent Units

(921) (902)	 23.5 x 35.5	 27.5 x 35.5	 29.5 x 35.5	 31.5 x 35.5	 35.5 x 35.5	 39.5 x 35.5	 41.5 x 35.5
(972) (953)	 23.5 x 37.5	 27.5 x 37.5	 29.5 x 37.5	 31.5 x 37.5	 35.5 x 37.5	 39.5 x 37.5	 41.5 x 37.5
(1 073) (1 054)	 23.5 x 41.5	 27.5 x 41.5	 29.5 x 41.5	 31.5 x 41.5	 35.5 x 41.5	 39.5 x 41.5	 41.5 x 41.5
(1 175) (1 156)	 23.5 x 45.5	 27.5 x 45.5	 29.5 x 45.5	 31.5 x 45.5	 35.5 x 45.5	 39.5 x 45.5	 41.5 x 45.5
(1 226) (1 206)	 23.5 x 47.5	 27.5 x 47.5	 29.5 x 47.5	 31.5 x 47.5	 35.5 x 47.5	 39.5 x 47.5	 41.5 x 47.5
(1 327) (1 308)	 23.5 x 51.5	 27.5 x 51.5	 29.5 x 51.5	 31.5 x 51.5	 35.5 x 51.5	 39.5 x 51.5	 41.5 x 51.5
(1 378) (1 359)	 23.5 x 53.5	 27.5 x 53.5	 29.5 x 53.5	 31.5 x 53.5	 35.5 x 53.5	 39.5 x 53.5	 41.5 x 53.5
(1 473) (1 461)	 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.

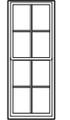
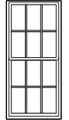
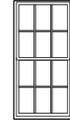
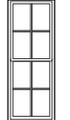
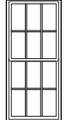
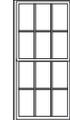
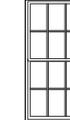
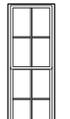
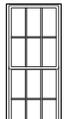
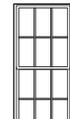
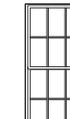
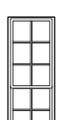
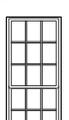
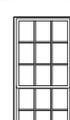
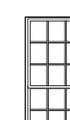
Traditional grille patterns shown.



# Lifestyle Series Double-Hung

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

### Vent Units

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



# Lifestyle Series Double-Hung

## Size Tables - Replacement Fixed with Removable Grilles

### Fixed Units

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (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"
(1 473) (1 461)	4' 10 1/4"	4' 6 1/4"	4' 4 1/4"	4' 0 1/4"
(1 378) (1 359)	4' 6 1/4"	4' 5 1/2"	4' 3 1/2"	3' 11 1/2"
(1 327) (1 308)	4' 4 1/4"	4' 3 1/2"	4' 1 1/2"	3' 9 1/2"
(1 226) (1 206)	4' 0 1/4"	3' 11 1/2"	3' 9 1/2"	3' 10 1/4"
(1 175) (1 156)	3' 10 1/4"	3' 11 1/2"	3' 9 1/2"	3' 6 1/4"
(1 073) (1 054)	3' 6 1/4"	3' 5 1/2"	3' 5 1/2"	3' 2 1/4"
(972) (953)	3' 2 1/4"	3' 1 1/2"	3' 1 1/2"	2' 11 1/2"
(921) (902)	3' 0 1/4"	2' 11 1/2"	2' 11 1/2"	2' 11 1/2"
	41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5
	41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5
	41 x 47.5	47 x 47.5	53 x 47.5	59 x 47.5
	41 x 45.5	47 x 45.5	53 x 45.5	59 x 45.5
	41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5
	41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5
	41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (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"
(1 835) (1 816)	6' 0 1/4"	5' 11 1/2"	5' 6 1/4"	5' 11 1/2"
(1 683) (1 664)	5' 6 1/4"	5' 5 1/2"	5' 5 1/2"	5' 2 1/4"
(1 581) (1 562)	5' 2 1/4"	5' 1 1/2"	5' 1 1/2"	4' 11 1/2"
(1 530) (1 511)	5' 0 1/4"	4' 11 1/2"	4' 11 1/2"	4' 11 1/2"
	41 x 71.5	47 x 71.5	53 x 71.5	59 x 71.5
	41 x 65.5	47 x 65.5	53 x 65.5	59 x 65.5
	41 x 61.5	47 x 61.5	53 x 61.5	59 x 61.5
	41 x 59.5	47 x 59.5	53 x 59.5	59 x 59.5

### 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.



# Lifestyle Series Double-Hung

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

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (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) (902)				
	41 x 35.5	47 x 35.5	53 x 35.5	59 x 35.5
(972) (953)				
	41 x 37.5	47 x 37.5	53 x 37.5	59 x 37.5
(1 073) (1 054)				
	41 x 41.5	47 x 41.5	53 x 41.5	59 x 41.5
(1 175) (1 156)				
	41 X 45.5	47 X 45.5	53 X 45.5	59 X 45.5
(1 226) (1 206)				
	41 X 47.5	47 X 47.5	53 X 47.5	59 X 47.5
(1 327) (1 308)				
	41 x 51.5	47 x 51.5	53 x 51.5	59 x 51.5
(1 378) (1 359)				
	41 x 53.5	47 x 53.5	53 x 53.5	59 x 53.5
(1 473) (1 461)				
	41 x 57.5	47 x 57.5	53 x 57.5	59 x 57.5

	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 517) (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) (1 511)				
	41 x 59.5	47 x 59.5	53 x 59.5	59 x 59.5
(1 581) (1 562)				
	41 x 61.5	47 x 61.5	53 x 61.5	59 x 61.5
(1 683) (1 664)				
	41 x 65.5	47 x 65.5	53 x 65.5	59 x 65.5
(1 835) (1 816)				
	41 x 71.5	47 x 71.5	53 x 71.5	59 x 71.5

### 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.

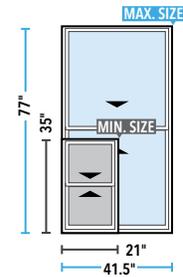
Not to scale.

Traditional grille patterns shown.



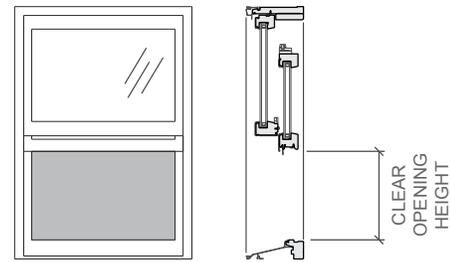
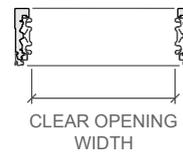
Special Size Frame Dimensions\*

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



Miscellaneous Formulas (Equal Sash Only)

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



Shaded portion shows vent area.

Miscellaneous Formulas (Fixed Units Only)

	Fixed and transom units
Visible Glass	Width = Frame - 4.9375" Height = Frame - 4.9375"
Actual Glass	Width = Frame - 4" 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.



# Lifestyle Series Double-Hung

## 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.



# Lifestyle Series Double-Hung

## 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

## 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

## 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	
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 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

## 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, where shown, 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<sup>2</sup>
  - 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.

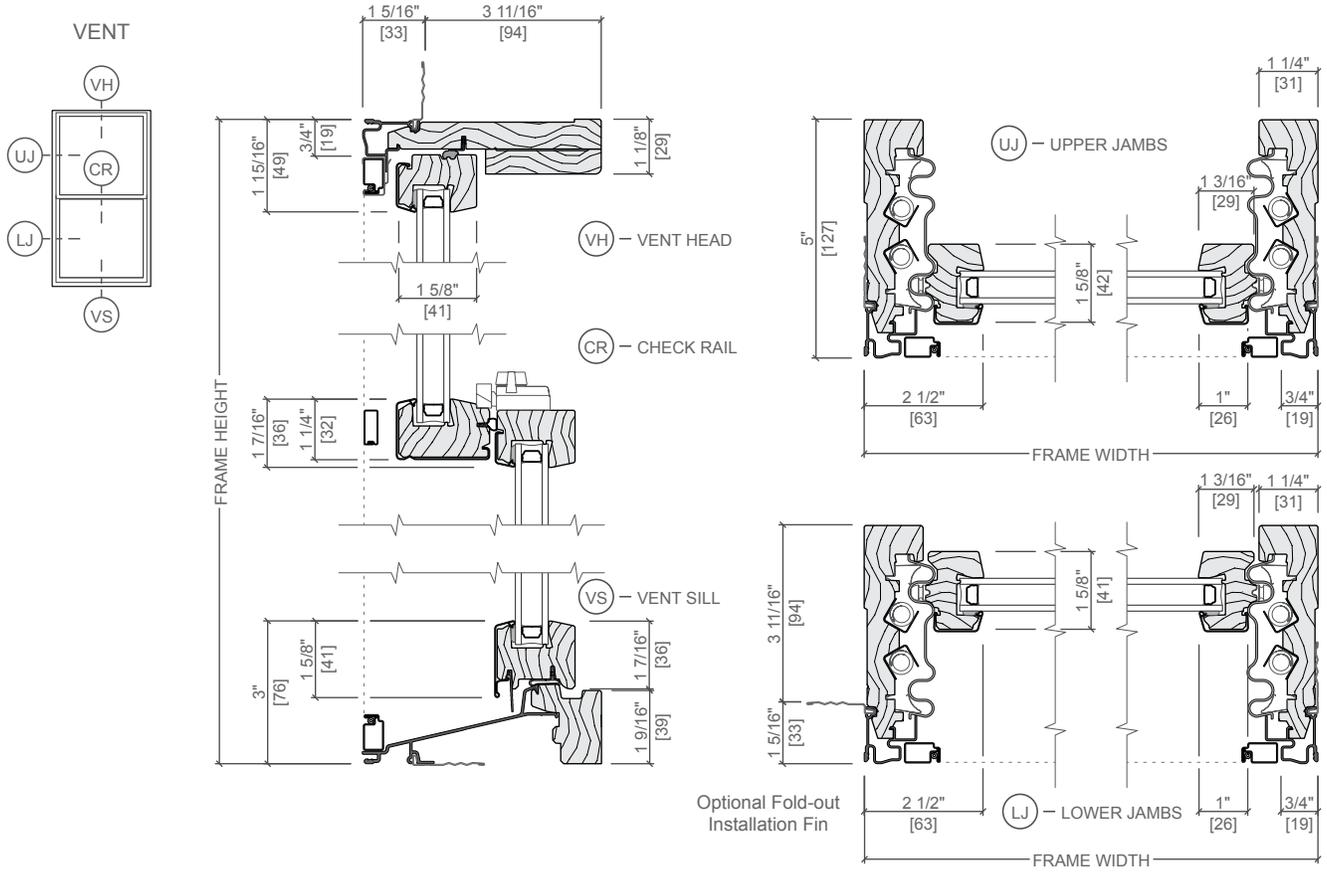
(3) Tan, brown and putty Interior GBG colors are available only with matching interior and exterior colors.

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



# Lifestyle Series Double-Hung

## Unit Sections

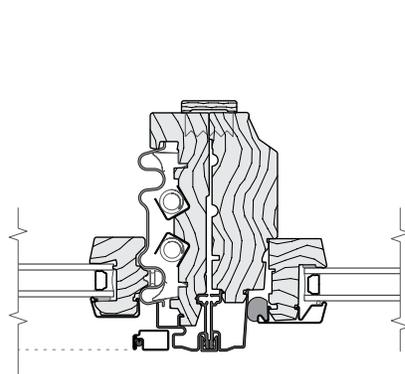
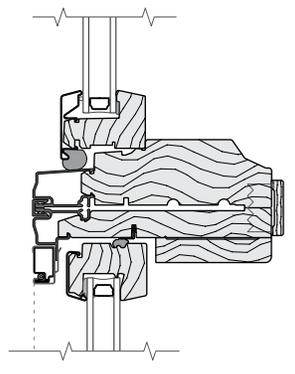
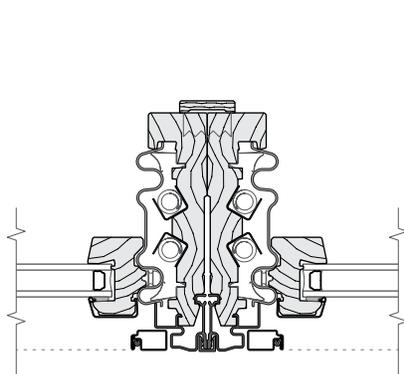
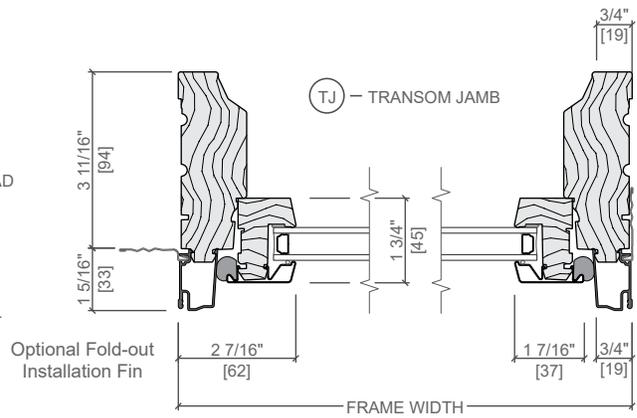
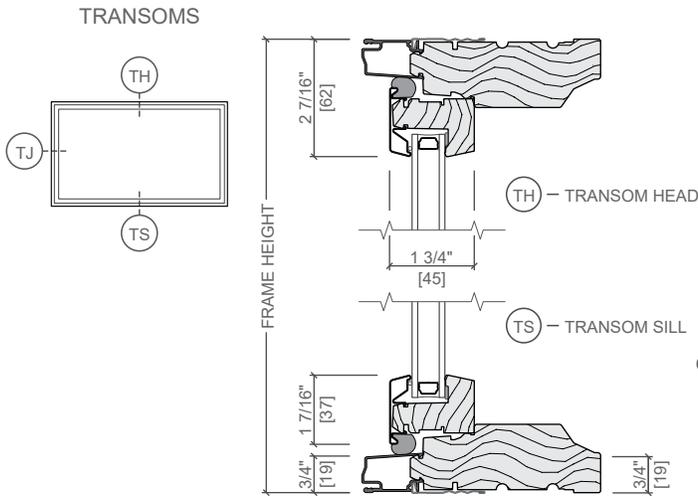
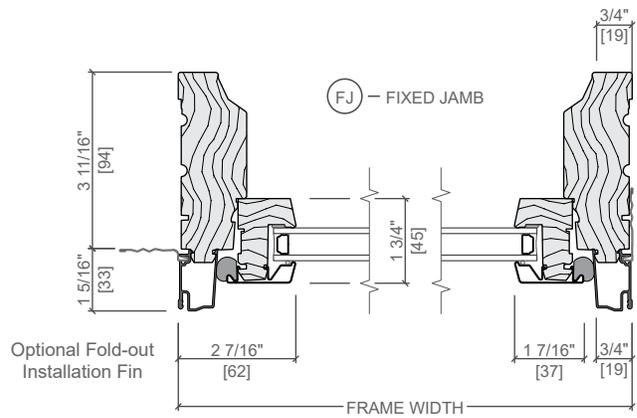
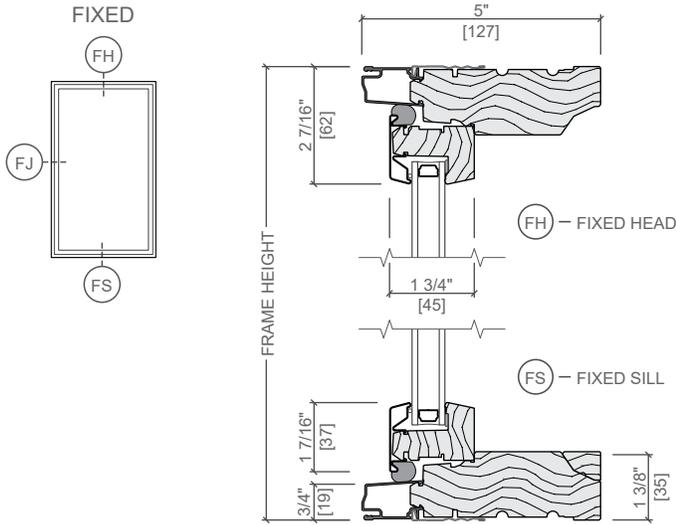


Scale 3" = 1' 0"  
 All dimensions are approximate.



# Lifestyle Series Double-Hung

## Unit Sections



Scale 3" = 1' 0"

All dimensions are approximate.

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