

# Agenda

## Historic District Commission

City of Kalamazoo



Tuesday, July 15, 2025

5:00 PM

City Commission Chambers at City Hall – 241 West South Street

### A. CALL TO ORDER/ROLL CALL

1. Kristi Breisach
2. Katie Boertman
3. James Johnson
4. Dan Kastner - Chair
5. Dana Underwood - Vice-Chair

### B. ADOPTION OF FORMAL AGENDA

### C. APPROVAL OF MINUTES

1. Approval of the minutes from the Historic District Commission meeting on 17 June 2025

### D. PUBLIC COMMENTS

### E. APPLICATION REVIEWS

1. 215 E Michigan - Alteration (Installation of Sign) PPZ25-0033  
*Year Built:* 1886  
*Style:* N/A  
*Historic District:* Haymarket
2. 402 E Michigan - Alteration (Installation of a freestanding sign) PPZ25-0034  
*Year Built:* 1910 (BS&A)  
*Style:* Italianate  
*Historic District:* Haymarket
3. 1552 Academy - Alteration (Addition of solar panels to existing array) PPZ25-0035  
*Year Built:* 1956  
*Style:* Ranch  
*Historic District:* West Main Hill

4. 422 Stuart - Alteration (Replacement of 3rd story window on the west face of the building.) PPZ25-0035  
*Year Built:* 1884  
*Style:* Queen Anne  
*Historic District:* Stuart

**F. COORDINATOR'S REPORT**

1. Coordinator's Report

**G. ADJOURNMENT**

**DISCLAIMER**

Chapter 16, Section 22 of the City of Kalamazoo Code of Ordinance states:

Historical preservation is a public purpose. To serve that purpose, the Historic District Commission is hereby charged with the following responsibilities:

- a) The Kalamazoo Historic District Commission is empowered to regulate Work on the exterior of historic resources and non-historic resources in historic districts in the City of Kalamazoo and shall otherwise have all powers invested in Historic District Commissions pursuant to the Local Historic Districts Act, MCLA § 399.201 et seq. 1970 PA 169, as Amended 1992.
- b) To regulate Work on resources which, by City ordinance, are historic or non-historic resources located within local historic districts, including but not limited to the moving of any structure into or out of, or the building of any structure in, an historic district.

The following documents are available in the Community Planning and Economic Development Department located at 245 North Rose Street. These documents will help assist property owners in understanding the responsibilities of owning property in a local historic district: MCLA § 399.201 et seq. 1970 PA 169 as Amended 1992 (Michigan Local Historic District Act); Code of Ordinances City of Kalamazoo, Michigan (Chapter 16 - Historic District); Secretary of the Interiors Standards for Rehabilitation & Guidelines for Rehabilitating Historic Buildings, 1990; Standards and Guidelines for Kalamazoo Historic Districts, and maps of Kalamazoo Local Historic Districts. These documents and maps are also available on the city of Kalamazoo website at [www.kalamazoocity.org/historicpreservation](http://www.kalamazoocity.org/historicpreservation).

**GUIDELINES FOR PUBLIC PARTICIPATION AT HDC MEETINGS**

The Historic District Commission recognizes that citizens who make the effort to attend a Commission meeting often feel passionately about an issue. The following guidelines are not meant to discourage individual expression; rather, they exist to facilitate the orderly conduct of business and to ensure that all citizens who wish to address the Historic District Commission are able to do so in an atmosphere of civility and respect.

- Out of respect for business being conducted during the meeting, turn off all cell phones and pagers prior to the meeting.
- Citizens have opportunities to address the Historic District Commission at the following times during a meeting:
  - Address Non-agenda items at the beginning of the meeting. If you wish to speak about a specific review, please wait until that review comes to the commission.
  - Consideration of Regular Agenda items. Citizens are permitted to speak to the Commission on project reviews after the applicant has made their presentation and prior to the Historic District Commission discussion. The Chair will call for comments from the public.

**A Note on Quorum and Historic District Commission Decisions**

City of Kalamazoo Code of Ordinance – Chapter 16 – Historic District Commission – section 19 states: “A majority of the members of the Commission shall constitute a quorum. A majority of the appointed members is required to take action on all matters not of an administrative nature, but a majority of a quorum may deal with administrative matters.” All applicants should be aware that the minimum of four of the commissioners must vote for a motion for a decision to be made in all actions. Applicants may choose to postpone their review to the next regularly scheduled meeting of the commission before the commission begins their deliberations if fewer than seven commissioners are present. The postponement form is available from the coordinator and must be filled out and signed before the applicant leaves the meeting.

**KALAMAZOO HISTORIC DISTRICT COMMISSION**

**Agenda – Tuesday, May 20th, 2025**

**5:00 pm**

241 W. South St. Kalamazoo, MI 49007

**I. Call to Order:** Mr. Kastner called the meeting to order at 5:01 PM

**II. Roll Call & Approval of Absences:**

Eric Stucky-Present

Katie Boertman- Present

Dana Underwood – Present

Kristi Breisach- Present

James Johnson-Absent

Dan Kastner- Present

Motion made by Ms. Breisach to approve the absence of Mr. Johnson with a second by Mr. Stucky. All commissioners approved.

Mr. Pena read the disclaimer on record at 5:03 PM.

**III. Approval of Agenda:**

Motion made to approve the agenda by Ms. Underwood with a 2<sup>nd</sup> by Ms. Breisach. All commissioners approve.

**IV. Approval of Minutes:** April 15th, 2025

Motion made by Ms. Underwood to approve the minutes with a second by Ms. Boertman; All commissioners approved.

**V. Public Comment on non-agenda items:** No comments.

**VI. OLD BUSINESS: None**

**NEW BUSINESS:**

**A) 1535 Grand**

**Removal of stucco on dormers,  
Replace with cement board**

**Year Built: 1910**

**Style: Prairie  
Historic District: West Main Hill**

Mr. Chris Heckman on behalf of 1<sup>st</sup> Choice Custom Building is proposing to re-roof the home as well as to remove the dormer stucco and replace with cement board that would remain the same color. Mr. Heckman did bring samples of the product as well as additional photos and letters from the neighbors

supporting the change. They have been unable to find a contractor that is willing to do the work or someone who is qualified. The stucco in this application and this area will break down again due to water. The footprint will remain the same. The stucco in this home does have asbestos in it. Ms. Underwood makes a motion to approve a Certificate of Appropriateness for the work as described in the application, the proposed work complies with the Secretary of the Interior standards 2, 5, 6, 9 and 10 with a second from Ms. Boertman. All commissions approved.

**B) 436 Stuart**

**Year Built: 1890**

**Demo of Carriage Barn**

**Style: Queen Ann  
Historic District: Stuart**

Ms. Megan Campanile wants to get approval to demo the carriage barn on her property. The existing barn was built in the 1970's. The home was purchased in 2021, and some work was done on the inside of the barn. The homeowner did have the building inspected and noted that the cross beams had cracks in them. The barn has had additional supports added to the beams to help support the structure. The barn was built from reclaimed wood and none of the wood would be reusable. The homeowner has been unable to get to the 2<sup>nd</sup> floor and has had raccoons in the structure. Ms. Campanile has tried finding a structural engineer to access the building but the cost to access it is \$1,500. Ms. Campanile would like to demolish the building and eventually rebuild something with the same style and charm to have a safer structure. The newspaper article is definite proof of when the building was built. The structure, while not historic, was built while the home was in the historic district. Most of the houses in the area do have carriage barns as well. Ms. Boertman makes a motion to approve a Certificate of Appropriateness for the work as described in the application, the proposed work complies with the Notice to Proceed criteria a and d with a second by Ms. Breisach. All commissioners approve.

**C) 1009 Oak**

**Year Built: 1895**

**Alteration- Installation of new windows in place or removed ones  
Style: Queen Anne  
Historic District: South Street-Vine Area**

Mr. Austin Sroczyński is looking to install 2 windows on the home. One window was replaced with a vinyl window and the other was closed in. They would like to return the openings to the original size and trim and to replicate the other windows on the home. They are looking to replace them with an Anderson A100 window which is a composite wood with fibrex. The new windows would not have a grid on them like the vinyl does currently and will be double hung windows. Ms. Breisach is curious if they have approved a 100 series window before. The commissioners have approved a 200 series window before, but this option is better than a vinyl window. Ms. Underwood states that the purpose is to preserve the house. The trim will match as close as possible to the other windows in the house. Ms. Boertman makes a motion to approve a Certificate of Appropriateness for the work as described in the

application, the proposed work complies with the Secretary of the Interior standards 9 and 10 with a second from Ms. Underwood. All commissioners approve.

**VII. Coordinator's Report**

- Increase in administrative reviews.
- Mr. Stucky resigned from the Historic District Commission.

**VIII. Adjournment**

Mr. Kastner adjourned at 5:41 PM.

\_\_\_\_\_

Chairperson

\_\_\_\_\_

Date

\_\_\_\_\_

Historic Preservation Coordinator

\_\_\_\_\_

Date

\_\_\_\_\_

Recording secretary

\_\_\_\_\_

Date



# Historic District Commission Staff Report

City of Kalamazoo

**TO:** The Kalamazoo Historic District Commission  
**FROM:** Luis Pena, Historic Preservation Coordinator  
**DATE:** July 15, 2025  
**SUBJECT:** 1. 215 E Michigan - Alteration (Installation of Sign) PPZ25-0033

## PROPOSED WORK:

**From the Description of Work Supplied by the Applicant:** One internally illuminated exterior wall sign.

## EVALUATION:

### Project Details

Installation of one 4' 6" x 3' 3" projecting, illuminated sign on the front facade of the building.

### Applicable Criteria

#### **Secretary of the Interior's Standards for Rehabilitation**

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

*The proposed sign will not destroy historic materials that characterize the property. The structure is a non-contributing resource in the Haymarket local historic district, and none of the materials are historic materials that characterize the property. The sign will be differentiated from surrounding historic resources through the use of modern materials and internal illumination. The size of the sign will be compatible with the building and the environment.*

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

*The proposed sign could be removed in the future without impairing the essential form and integrity of the historic property.*

## Local Historic District Standards and Guidelines

### Signs

- Signs shall not be placed so as to conceal or disfigure any architectural feature of a building. The style and size of all signs shall be visually compatible with the buildings on which they are attached.
  - The proposed sign will not conceal or disfigure any architectural features of the building.

### Discussion

The proposed sign will not have an adverse effect on the existing, non-contributing structure. The sign could be removed in the future without impairing the historic character of the building.

### **POTENTIAL ACTIONS:**

1. The proposed work complies with the Secretary of the Interior standards 9 and 10. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**
2. More information is needed. **Action: Motion to postpone until the HDC meeting on 12 August 2025 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 19 August 2025.**
3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 9 and 10.**



Community Planning and Economic Development  
 Historic District Commission  
 245 N. Rose Street  
 Kalamazoo, MI 49007  
 Telephone: (269) 337-8804; FAX (269) 337-8513  
[Penal@kalamazoo.org](mailto:Penal@kalamazoo.org)

**APPLICATION FOR PROJECT REVIEW – Administrative review**

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 215 E MICHIGAN AVE KALAMAZOO, MI 49007

Historic District:  South/Vine  Stuart  West Main Hill  Rose Place  Haymarket

Applicant: SIGNART INC -MATTHEW HANNA Owner: TREYSTAR HOLDINGS LLC

Mailing Add: 5757 E CORK ST Mailing Add: P.O. BOX 51716

City State & Zip: KALAMAZOO, MI 49048 City, State Zip: KALAMAZOO, MI 49007

Phone: 269-381-3012 Phone: \_\_\_\_\_

Email: PERMITS @SIGNARTINC.COM Email: \_\_\_\_\_@\_\_\_\_\_

Contractor: SIGNART INC, MATTHEW HANNA

Work to be done by owner

Contractors name: SIGNART INC, MATTHEW HANNA

Proposed Work: (Use additional sheets to describe work if necessary)

One (1) internally illuminated exterior wall sign, one (1) interior wall sign

<p>Application Checklist:</p> <p><input type="checkbox"/> Drawings 11x17 or smaller with dimensions</p> <p><input type="checkbox"/> Materials list</p> <p><input type="checkbox"/> Site plan including north arrow</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> \$35 - HDC review fee – charged with building permit</p>
--

MH \_\_\_\_\_ This property has at least one working smoke detector for each dwelling unit.  
 (Owner or applicant's initials, required) \* see back

Applicant's Signature: Matthew Hanna Date: 06/04/2025

Owner's Signature: see attachment Date: \_\_\_\_\_  
 (if different)

**-For Historic Preservation Coordinator's Use Only-**

Case Number PPZ25-0033 Date Received 06/16/2025

Zoning D1 YEAR BUILT 1886 Complete application yes

Owned since 04/18/2022 Fee Paid \$35

- This project will require a building permit with a \$35 administrative review fee.
- This project will not require a building permit, there is a \$35 administrative review fee
- Referred to the Historic District Commission for review at a monthly hearing - \$85 hearing fee.  
 Meeting date 07/15/2025

**ADMINISTRATIVE**

Staff Review Date \_\_\_\_\_  Approve  Site Visit  Approve w/Conditions

COMMENTS

Certificate of Appropriateness Issued \_\_\_\_\_

Notice to Proceed \_\_\_\_\_

Referred to Historic District Commission for hearing\* \_\_\_\_\_ \$85

fee Hearing date \_\_\_\_\_

# Historic District Commission - APPLICATION FOR PROJECT REVIEW

## Administrative review - *Filling out the application – instructions and tips –*

### PLEASE PRINT.

**Property address:** street address of the property where the work will be done

**Applicant:** Owner or the owner's contractor.

**Mailing Address:** Applicant's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Historic district:** Stuart, South Street/Vine Area, Haymarket, West Main Hill or Rose Place

**Owner:** Legal owner of property

**Mailing Address:** Owner's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Contractor – Name of contractor if this project requires a building permit or check  work to be done by owner**

**Proposed Work:** What work do you plan to do? Please be as specific as possible including a complete description of the part of the structure where work will be done.

**(Remember: Always apply for and obtain your "Certificate of Appropriateness" BEFORE you purchase materials for your project.)**

**Example #1:** Rather than "Replace window."

Say "Replace lower sash of the left window in the front of the house on the first floor with a wooden sash to match the original." Also state the reason you need to replace rather than repair the sash. ("Sash severely damaged by football.")

**Example #2:** Instead of "New storm door"

Say "Install new white aluminum storm door on back of house to fit original opening in width and height." And include a drawing or photo of the proposed door – perhaps from a sales flyer or an order sheet. Specify the measurements of the width and height of the original opening.

**Example #3:** Rather than: "Fence front yard."

Say "Fence front yard with 3' tall Gothic top wooden pickets. Two gates to be installed with the same materials, at the front and north side sidewalks. Fence attached to front house corners."

These are relatively simple examples.

- Measurements are very important and may be part of the drawing
- Drawings should be black or dark blue ink on white paper
- Electronic submissions are encouraged.

A COMPLETE APPLICATION includes:

This application

Drawings as needed

Specifications of materials

Payment of a \$35 administrative review fee in addition to the building permit fee

Name of the contractor if this project requires a building permit Or indicate  owner

\*  Please initial to verify this property has at least one working smoke detector for each dwelling unit. This is REQUIRED by state law or the application will be considered incomplete.

**Emergency repairs:** If damage occurs to a structure in a historic district, which requires emergency repairs, steps may be taken to secure the structure without the approval of the commission or the coordinator. Cover damaged windows or holes in a roof with tarps or wood to prevent further damage. Support dangling or loose elements or remove and store them. Notify the Coordinator of the damage to the structure on the first weekday available after the damage occurs and the coordinator will visit the structure as well as arranging a site visit by commission members to approve repairs if necessary. **THIS WILL BE DONE AS QUICKLY AS POSSIBLE IN ORDER TO FACILITATE REPAIRS OF THE STRUCTURE IN A TIMELY MANNER.**

*If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at (269) 337-8804 or by email at [Penal@kalamazocounty.org](mailto:Penal@kalamazocounty.org)*

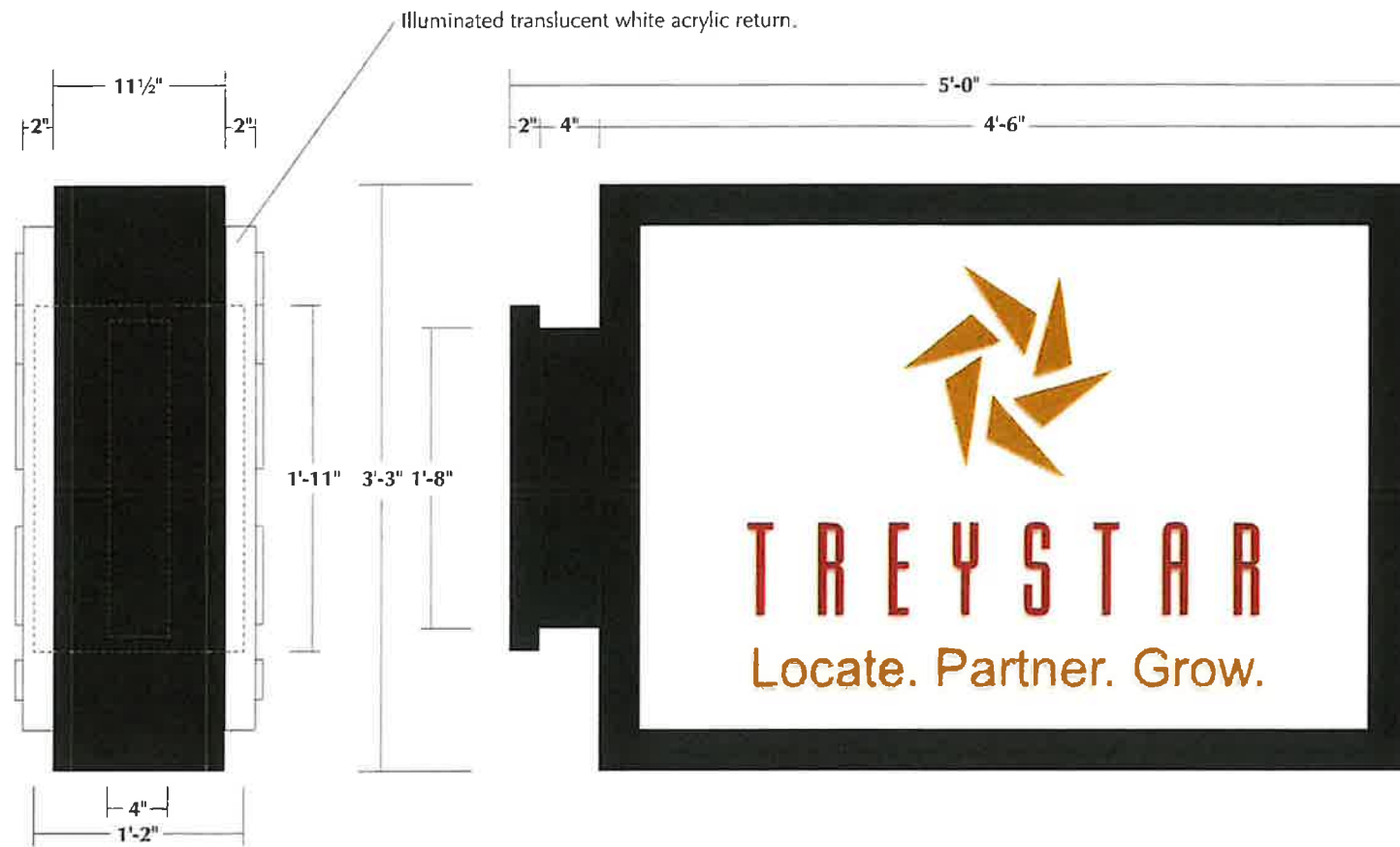
Property Owner Name: <i>Connor Dewitt</i>	
Property Owner Address: <i>215 E MICHIGAN AVE, STE 200, KALAMAZOO MI 49007</i>	
Property Address: 215 E Michigan Ave.	City, State, ZIP: Kalamazoo, MI 49007
Property Owner Email:	Property Owner Phone:
Contractor Name: SIGNART, INC	

I, the above-indicated property owner, the undersigned, do hereby willingly recognize the above-indicated Contractor as my agent, and in so doing, I grant them the authority to apply for and obtain permits and Historic District Commission approval on my behalf for work to be completed at the property commonly addressed as indicated above.

*06/05/25*

Property Owner Signature

Date



Night Time View

**Double Faced Illuminated Projecting Sign**

**Sign Cabinet**

S.A. Double filler aluminum extrusion.  
 1 1/4" x 3 1/2" x .125" Aluminum angle retainers.  
 4" Aluminum reveal.  
 Paint with GripGard EFX semi-gloss enamel.

**Faces**

Precision routed .100 aluminum with 2" translucent white acrylic returns.  
 Paint with GripGard EFX semi-gloss enamel.  
 Back with 1/2" white push-thru acrylic.  
 Applied pressure sensitive vinyl.

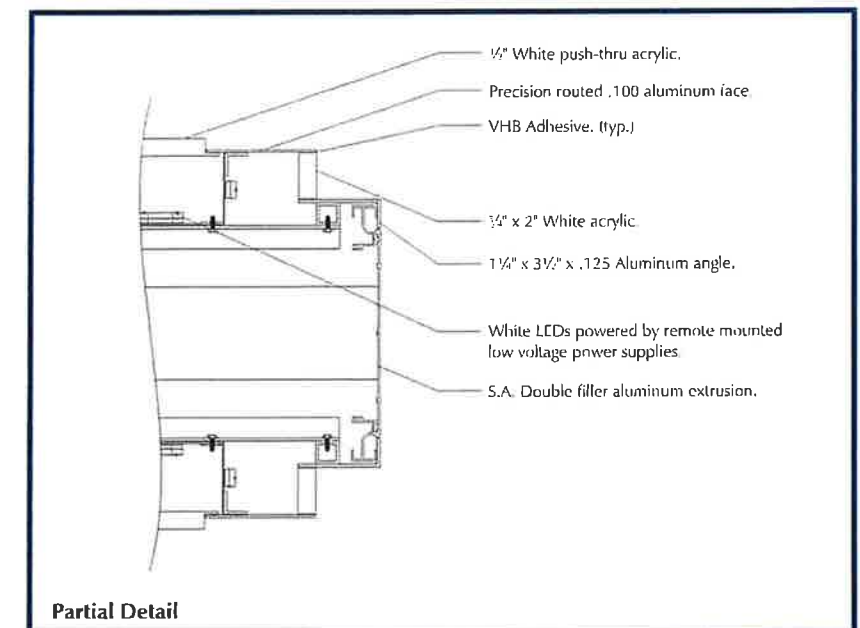
**Electrical/Illumination**

White LEDs powered by low voltage power supplies.  
 Toggle disconnect.  
 1" Rigid electrical conduit.

**Mounting**

2 1/2" x 2 1/2" x .250 Steel tubes.  
 1'-10 1/2" x 1'-1 1/2" x 1/2" Steel mounting plate.  
 Custom fabricated .100 aluminum plate cover.  
 Paint with GripGard EFX semi-gloss enamel.  
 Four (4) thru-bolts with nuts/washers as needed.

**Note:** SignArt to install a guy wire to facade to improve stability.



Partial Detail

Sign #1 — Double Faced Illuminated Projecting Sign

Scale: 1" = 1'-0"



Existing Elevation



Proposed Elevation



**Square Footage**  
 Sign #1 3'-3" x 4'-6" = 14.63 Sq.Ft.



This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.



Sign #1

Notes:

Site Plan

Scale: None





# Historic District Commission Staff Report

City of Kalamazoo

**TO:** The Kalamazoo Historic District Commission  
**FROM:** Luis Pena, Historic Preservation Coordinator  
**DATE:** July 15, 2025  
**SUBJECT:** 2. 402 E Michigan - Alteration (Installation of a freestanding sign) PPZ25-0034

## PROPOSED WORK:

**From the Description of Work Supplied by the Applicant:** Installation of one EMC monument sign.

## EVALUATION:

### Project Details

Installation of 1 internally illuminated monument sign with LED display. The sign will be 5'3" wide x 9' 6 1/2" tall. Sign will be placed on the west side of the building.

### Applicable Criteria

#### **Secretary of the Interior's Standards for Rehabilitation**

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

*The proposed sign is freestanding and will not destroy any historic materials that characterize the property. The sign will be differentiated from the historic property because it is freestanding and utilizes modern materials. The size and scale of the proposed sign will be compatible with the existing building, and will not impair the historic integrity of the property or environment.*

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

*Because the proposed sign is freestanding, it could be removed in the future without impairing the historic character of the property.*

## Local Historic District Standards and Guidelines

### Signs

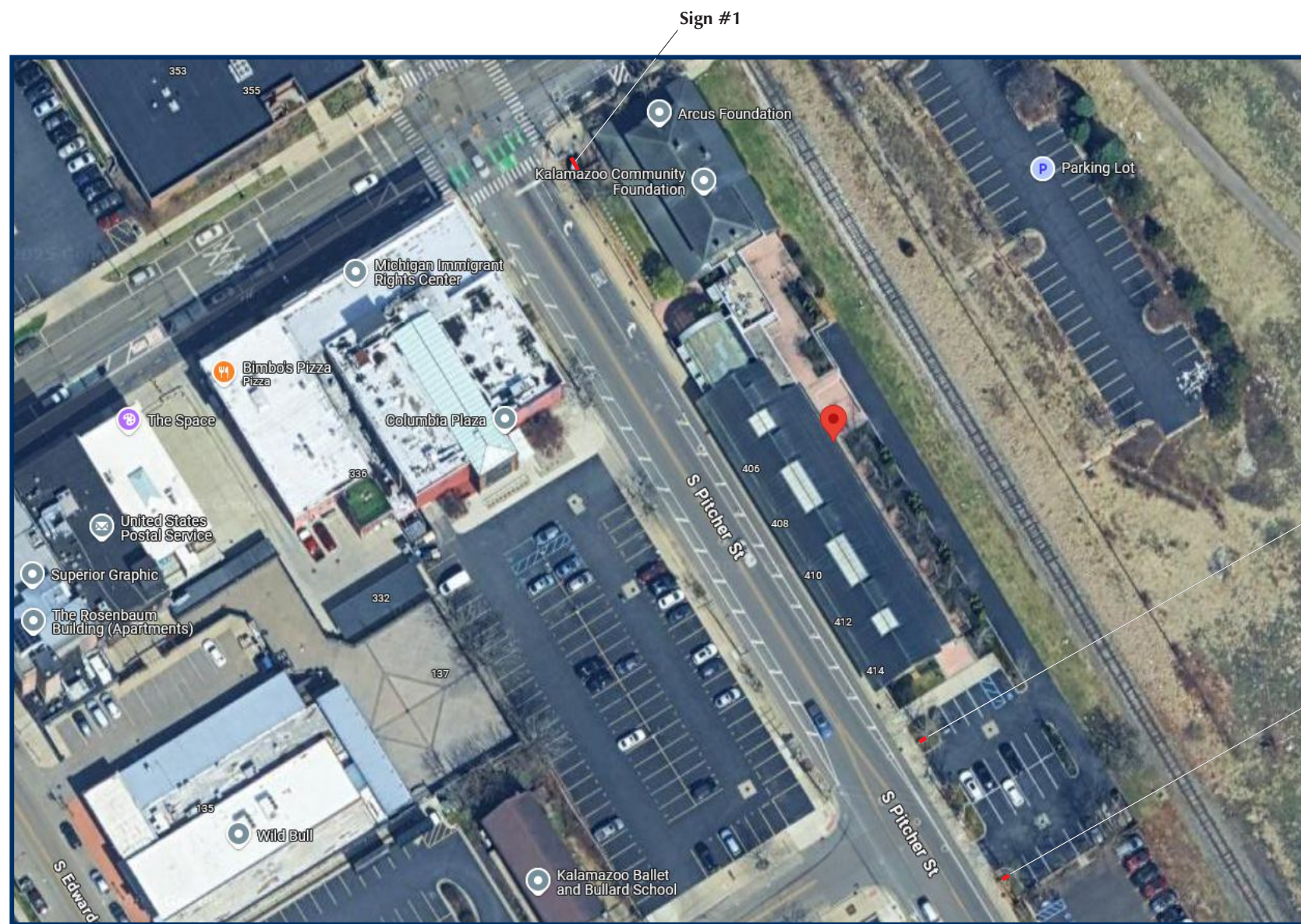
- Signs shall not be placed so as to conceal or disfigure any architectural feature of a building. The style and size of all signs shall be visually compatible with the buildings on which they are attached.
  - *The proposed sign will not conceal or disfigure any of the architectural features on the building, because the proposed sign will be freestanding.*

### Discussion

The proposed, freestanding sign, can be installed without a negative impact on the historic building. Additionally, the sign could be removed in the future without impairing the historic character of the building.


### **POTENTIAL ACTIONS:**

1. The proposed work complies with the Secretary of the Interior standards 9 and 10. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**
2. More information is needed. **Action: Motion to postpone until the HDC meeting on 19 August 2025 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 12 August 2025.**
3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 9 and 10.**



Notes:

Site Plan

Scale: None 



Community Planning and Economic Development  
 Historic District Commission  
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**APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing**

*COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month.*

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 402 E Michigan

Historic District:  South/Vine  Stuart  West Main Hill  Rose Place  Haymarket

Applicant: SignArt Inc Owner: Kalamazoo Community Foundation

Mailing Add: 5757 E Cork St Mailing Add: 402 E Michigan

City State & Zip: Kalamazoo, MI 49048 City, State Zip: Kalamazoo, MI 49007

Phone: 269-381-3012 Phone: \_\_\_\_\_

Email: permits @ signartinc.com Email: \_\_\_\_\_@\_\_\_\_\_

Contractor SignArt Inc

Work to be done by owner

**Proposed Work:** Use additional sheets to describe work if necessary

Installation of one (1) EMC monument sign

( MC ) This property has at least one working smoke detector for each dwelling unit.  
 (Owner or applicant's initials) (Required) \* see back

Applicant's Signature: [Signature] Date: 06/13/2025

Owner's Signature: see attachment Date: \_\_\_\_\_  
 (if different)

**APPLICATION CHECKLIST:**  
*Include all these items are in your submission. Incomplete applications will be held until the next review hearing.*

- Drawings 11x17 or smaller with dimensions
- Materials list
- Site plan including north arrow
- Other:
- \$85 for HDC hearing & review fee – must be paid in advance to be placed on agenda – include WITH application – Check payable to: City of Kalamazoo

**-For Historic Preservation Coordinator's Use Only-**

Case Number: PPZ- 25-0034 Date Received\*: 06/16/2025  
 Zoning D3 Year built 1910 Complete application Yes  
 Owned since 08/30/2013

COMMISSION Meeting Date 07/15/2025 Hearing fee paid \$85 \_\_\_\_\_  
 Check # \_\_\_\_\_

COMMENTS \_\_\_\_\_

Approve in Concept Date \_\_\_\_\_ Letter mailed \_\_\_\_\_

**FINAL ACTION**

Approve  Site Visit  Approve w/Conditions  Deny  Postpone  Withdrawn

ACTION DATE \_\_\_\_\_  
 Certificate of Appropriateness Issued \_\_\_\_\_  
 Notice of Denial with appeals information \_\_\_\_\_  
 Notice to Proceed \_\_\_\_\_ Comments \_\_\_\_\_

Revised November 22, 2019

## APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing

**COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month. Incomplete applications will be postponed until the next meeting.**

### **Filling out the application – instructions and tips – PLEASE PRINT.**

**Property address:** street address of the property where the work will be done

**Applicant:** Owner or the owner's contractor.

**Mailing Address:** Applicant's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Historic district:** Stuart, South Street/Vine Area, Haymarket, West Main Hill or Rose Place

**Owner:** Legal owner of property

**Mailing Address:** Owner's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Name of the contractor if this project requires a building permit Or indicate  work done by owner**

**Proposed Work:** What work do you plan to do? Please be as specific as possible including a complete description of the part of the structure where work will be done.

**Example #1:** Rather than "Build new garage"

Say "Build new two car garage near northeast corner of lot, wooden frame with clapboard siding, paneled metal overhead door, service door on the north side and one window at the rear."

**Example #2:** Instead of "New front door"

Say "Install a new wooden front door to fit original opening in width and height, to replace the existing metal paneled door. See drawing/photo for appearance" Specify the measurements of the width and height of the original opening. Include a storm door if that is part of the project

For more complex projects, please include as many **continuation or illustration sheets** as you need to present a clear picture to the commission of your proposed work.

- Drawings – black or blue black ink on white paper. Electronic submissions are encouraged. Drawings should include dimensions of the existing part of the building and the proposed work.
- You need submit only one set of drawings; city staff will make the necessary copies.
- Use the checklist to be sure you have supplied all the important information.
- For new construction ) exterior stairs, new garage, reconstructing a porch, etc) a site plan WITH a north arrow is required.

\*( mc ) This property has at least one working smoke detector for each dwelling unit. Please initial to verify at least one working smoke detector in each dwelling unit. This is REQUIRED by state law or the application will be considered incomplete.

**PHOTOS:** The historic preservation coordinator is responsible for taking photographs of the proposed work and the structure. If you wish to take additional photos, one set is usually adequate for the commissioners to examine. You may also bring photos on a USB drive to share with the commission.

**Emergency repairs:** If damage occurs to a structure in a historic district, which requires emergency repairs, steps may be taken to secure the structure without the approval of the commission or the coordinator. Cover damaged windows or holes in a roof with tarps or wood to prevent further damage. Support dangling or loose elements or remove and store them. Notify the Coordinator of the damage to the structure on the first weekday available after the damage occurs and the coordinator will visit the structure as well as arranging a site visit by commission members to approve repairs if necessary. **THIS WILL BE DONE AS QUICKLY AS POSSIBLE IN ORDER TO FACILITATE REPAIRS OF THE STRUCTURE IN A TIMELY MANNER.**

If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at: (269) 337-8804 or by email at [PenaL@kalamazocounty.org](mailto:PenaL@kalamazocounty.org)

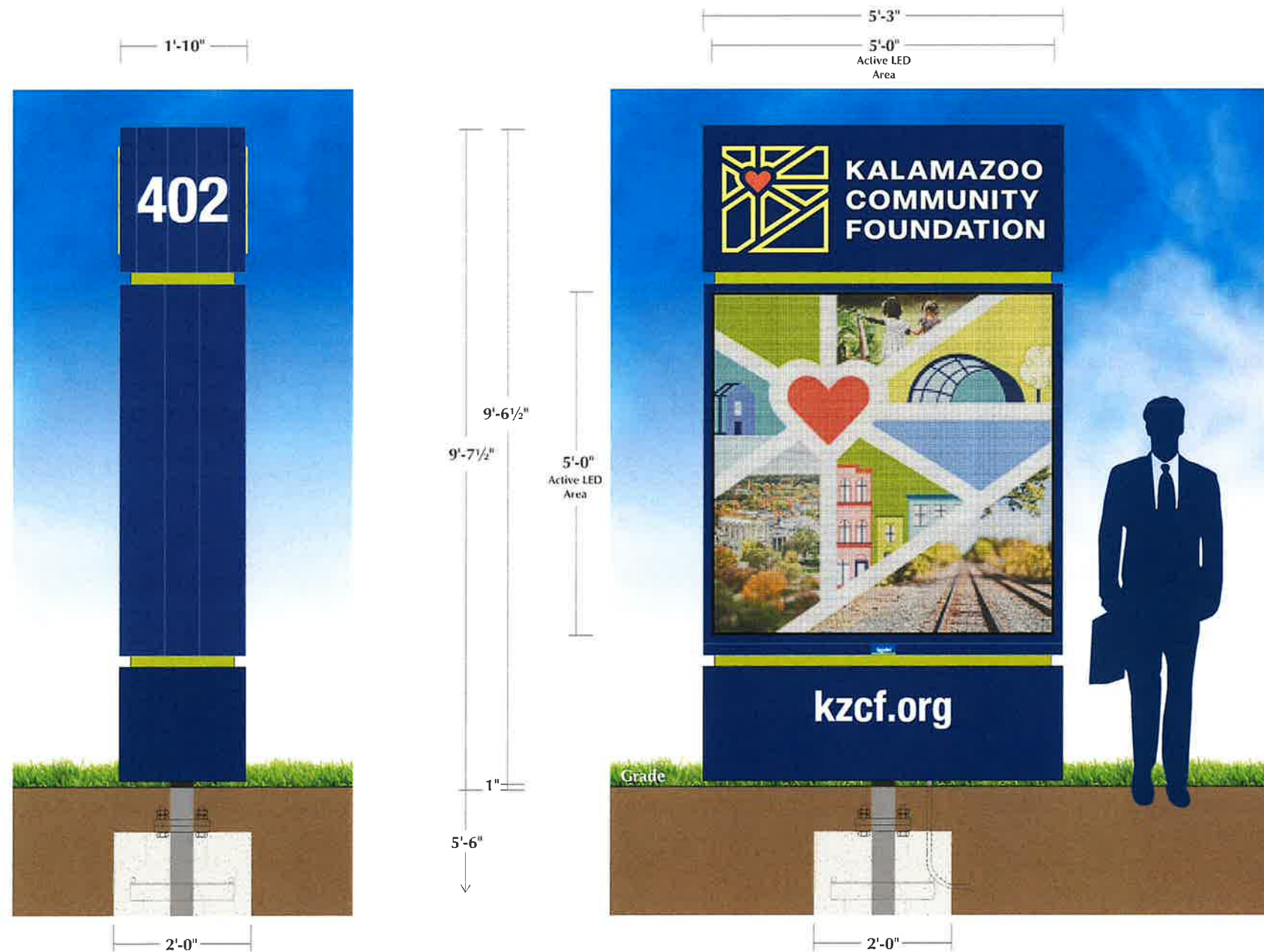
Property Owner Name: Kalamazoo Community Foundation	
Property Owner Address: 402 E. Michigan Ave Kalamazoo, MI 49007	
Property Address: 402 E MICHIGAN AVE	City, State, ZIP: KALAMAZOO, MI 49007
Property Owner Email: <a href="mailto:jsledge@kzcf.org">jsledge@kzcf.org</a> Operations: <a href="mailto:chauke@kzcf.org">chauke@kzcf.org</a>	Property Owner Phone: 269-381-4416
Contractor Name: SIGNART, INC	

I, the above-indicated property owner, the undersigned, do hereby willingly recognize the above-indicated Contractor as my agent, and in so doing, I grant them the authority to apply for and obtain a permit and any required Historic District Commission approvals on my behalf for work to be completed at the property commonly addressed as indicated above.



Property Owner Signature

6/16/25  
Date



**Double Faced Illuminated Monument Sign**

**I.D. Sign Cabinet**

Two S.A. Single filler mounted back-to-back with 1 3/4" retainers.  
2" Aluminum reveal.  
Paint with GripGard EFX semi-gloss enamel.

**Faces**

Precision routed .100 aluminum backed with 1/2" white push-thru acrylic.  
Paint with GripGard EFX semi-gloss enamel.  
Applied pressure sensitive vinyl.

**LED Message Center**

WatchFire 6mm full color LED message centers.  
.063 Black aluminum filler.  
2" Aluminum reveal.

**Electrical/Illumination**

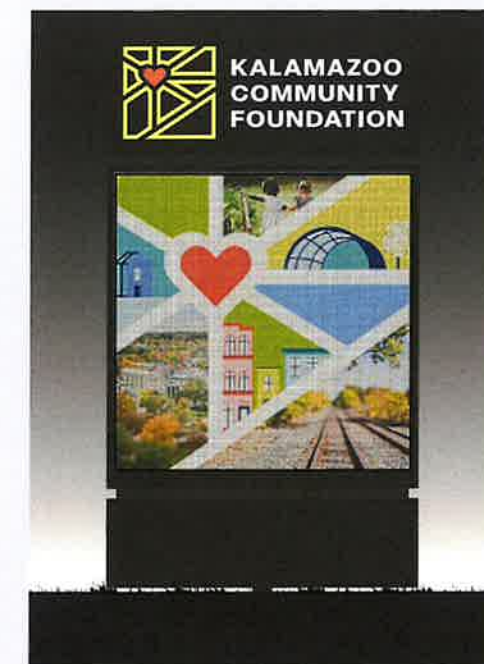
White LEDs powered by low voltage power supplies.

**Cladding**

.100 Aluminum.  
Paint with GripGard EFX semi-gloss enamel.

**Support/Foundation**

4" x 4" x .125" Steel support tube.  
Standard steel companion plates.  
Standard steel base plates.  
2'-0" x 5'-6" Deep augered concrete footing.



Night Time View

**Square Footage**  
Sign #1 9'-6 1/2" x 5'-3" = 50.09 Sq.Ft.



This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

Sign #1 — Double Faced Illuminated Monument Sign

Scale: 1/2" = 1'-0"





# Historic District Commission Staff Report

City of Kalamazoo

**TO:** The Kalamazoo Historic District Commission

**FROM:** Luis Pena, Historic Preservation Coordinator

**DATE:** July 15, 2025

**SUBJECT:** 3. 1552 Academy - Alteration (Addition of solar panels to existing array) PPZ25-0035

## PROPOSED WORK:

**From the Description of Work Supplied by the Applicant:** Tiger solar will install a 2.61kW roof mounted, grid tied, solar array on the Hunsinger residence. This is an expansion of an existing solar system, and the scope includes installation of a battery backup system.

## EVALUATION:

### Project Details

Install 6 additional solar panels onto the western portion of the roof.

### Applicable Criteria

#### **Secretary of the Interior's Standards for Rehabilitation**

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided. *The installation of the panels will not constitute the removal of historic materials or the alteration of features or spaces that characterize the property. The roofing material on the property is non-historic.*

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment. *The installation of the proposed solar panels will not destroy historic materials that characterize the property. The panels will be differentiated from the old because the proposed panels utilize modern materials and technology. The proposed panels will be compatible with the rest of the property, and will be installed parallel to the plane of the roof.*

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

*The proposed panels could be removed in the future without impairing the form and integrity of the historic property and the surrounding environment.*

#### Discussion

The proposed panels can be installed without detracting from the historic character of the property. While roof penetration will be necessary, the existing shingles are non-historic, and are the sacrificial material in a roofing system. Additionally, the proposed panels could be removed in the future without detracting from the historic character of the property.

#### **POTENTIAL ACTIONS:**

1. The proposed work complies with the Secretary of the Interior standards 2, 9 and 10. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**
2. More information is needed. **Action: Motion to postpone until the HDC meeting on 19 August 2025 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 12 August 2025.**
3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 2, 9 and 10.**



Community Planning and Economic Development  
 Historic District Commission  
 245 N. Rose Street  
 Kalamazoo, MI 49007  
 Telephone: (269) 337-8804; FAX (269) 337-8513  
[Penal@kalamazoo.org](mailto:Penal@kalamazoo.org)

**APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing**

*COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month.*

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 1552 ACADEMY STREET, KALAMAZOO, MI 49006

Historic District:  South/Vine  Stuart  West Main Hill  Rose Place  Haymarket

Applicant: Tiger Solar Owner: HUNSINGER, SCOTT A

Mailing Add: 848 W River Center Dr Suite E Mailing Add: 1552 ACADEMY ST

City State & Zip: Comstcok Park MI 49321 City, State Zip: KALAMAZOO, MI 49006

Phone: (616) 419-8369 Phone: (269) 352-6000

Email: archerg @ tigersolar.com Email: hunzysa @ hotmail.com

Contractor Tiger Solar

Work to be done by owner

**Proposed Work:** Use additional sheets to describe work if necessary

Tiger Solar will install a 2.61kW roof mounted, grid tied, solar array on the Hunsinger residence. This is an expansion of an existing solar system, and the scope includes installation of a battery backup system.

( GA ) This property has at least one working smoke detector for each dwelling unit. (Owner or applicant's initials) (Required) \* see back

Applicant's Signature: Gabriela Archer Date: \_\_\_\_\_

Owner's Signature: [Signature] Date: Jul 1, 2025  
 (if different)

**APPLICATION CHECKLIST:**  
*Include all these items are in your submission. Incomplete applications will be held until the next review hearing.*

- Drawings 11x17 or smaller with dimensions
- Materials list
- Site plan including north arrow
- Other:
- \$85 for HDC hearing & review fee – must be paid in advance to be placed on agenda – include WITH application – Check payable to: City of Kalamazoo

**-For Historic Preservation Coordinator's Use Only-**

Case Number: PPZ- 25-0035 Date Received\*: 07/01/2025  
 Zoning RS5 Year built 1956 Complete application \_\_\_\_\_  
 Owned since 07/11/2005

COMMISSION Hearing fee paid \$85 \_\_\_\_\_  
 Meeting Date 07/15/2025 Check # \_\_\_\_\_

COMMENTS \_\_\_\_\_

Approve in Concept Date \_\_\_\_\_ Letter mailed \_\_\_\_\_

**FINAL ACTION**

Approve  Site Visit  Approve w/Conditions  Deny  Postpone  Withdrawn

ACTION DATE \_\_\_\_\_  
 Certificate of Appropriateness Issued \_\_\_\_\_  
 Notice of Denial with appeals information \_\_\_\_\_  
 Notice to Proceed \_\_\_\_\_ Comments \_\_\_\_\_

Revised November 22, 2019

## APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing

*COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month. Incomplete applications will be postponed until the next meeting.*

### ***Filling out the application – instructions and tips – PLEASE PRINT.***

**Property address:** street address of the property where the work will be done

**Applicant:** Owner or the owner's contractor.

**Mailing Address:** Applicant's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Historic district:** Stuart, South Street/Vine Area, Haymarket, West Main Hill or Rose Place

**Owner:** Legal owner of property

**Mailing Address:** Owner's address

**City, State & Zip:**

**Phone:** Specify home or work

**Email**

**Name of the contractor if this project requires a building permit Or indicate  work done by owner**

**Proposed Work:** What work do you plan to do? Please be as specific as possible including a complete description of the part of the structure where work will be done.

**Example #1:** Rather than "Build new garage"

Say "Build new two car garage near northeast corner of lot, wooden frame with clapboard siding, paneled metal overhead door, service door on the north side and one window at the rear."

**Example #2:** Instead of "New front door"

Say "Install a new wooden front door to fit original opening in width and height, to replace the existing metal paneled door. See drawing/photo for appearance" Specify the measurements of the width and height of the original opening. Include a storm door if that is part of the project

For more complex projects, please include as many **continuation or illustration sheets** as you need to present a clear picture to the commission of your proposed work.

- Drawings – black or blue black ink on white paper. Electronic submissions are encouraged. Drawings should include dimensions of the existing part of the building and the proposed work.
- You need submit only one set of drawings; city staff will make the necessary copies.
- Use the checklist to be sure you have supplied all the important information.
- For new construction ) exterior stairs, new garage, reconstructing a porch, etc) a site plan WITH a north arrow is required.

\*(\_\_\_\_\_) This property has at least one working smoke detector for each dwelling unit. Please initial to verify at least one working smoke detector in each dwelling unit. This is REQUIRED by state law or the application will be considered incomplete.

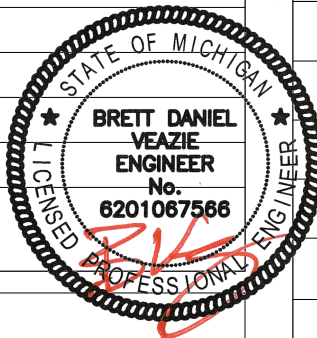
**PHOTOS:** The historic preservation coordinator is responsible for taking photographs of the proposed work and the structure. If you wish to take additional photos, one set is usually adequate for the commissioners to examine. You may also bring photos on a USB drive to share with the commission.

**Emergency repairs:** If damage occurs to a structure in a historic district, which requires emergency repairs, steps may be taken to secure the structure without the approval of the commission or the coordinator. Cover damaged windows or holes in a roof with tarps or wood to prevent further damage. Support dangling or loose elements or remove and store them. Notify the Coordinator of the damage to the structure on the first weekday available after the damage occurs and the coordinator will visit the structure as well as arranging a site visit by commission members to approve repairs if necessary. **THIS WILL BE DONE AS QUICKLY AS POSSIBLE IN ORDER TO FACILITATE REPAIRS OF THE STRUCTURE IN A TIMELY MANNER.**

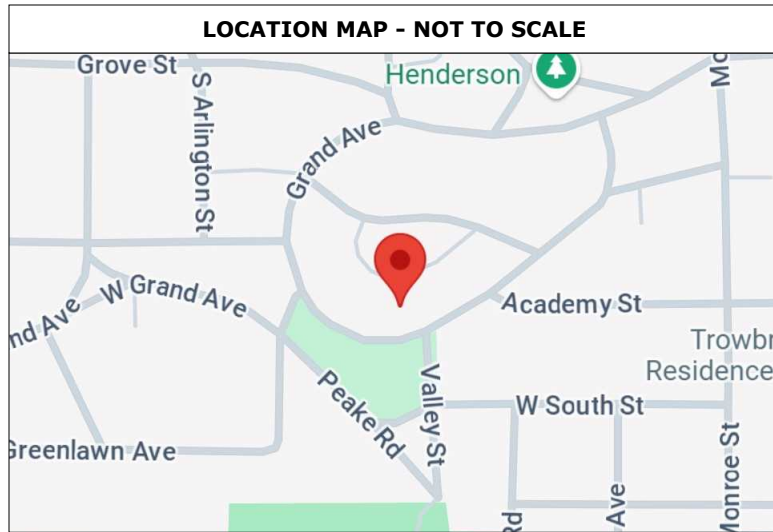
*If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at: (269) 337-8804 or by email at [Penal@kalamazocity.org](mailto:Penal@kalamazocity.org)*

PROJECT INFORMATION	
DATE:	06/05/2025
PROJECT NAME:	HUNSINGER, SCOTT-BATTERY ADDITION
PROJECT SIZE:	2.61 kW
CLIENT NAME:	SCOTT HUNSINGER
ADDRESS:	1552 ACADEMY STREET, KALAMAZOO, MI 49006
PHONE:	265 352 6000
EMAIL:	hunzysa@hotmail.com
WIFI NAME:	
WIFI PASSWORD:	

SYSTEM DETAILS	
AHJ:	CITY OF KALAMAZOO
PV MODULES:	(6) HYUNDAI HIS-435W
INVERTER:	(3) AP SMART DS3 MICROINVERTERS
BATTERY SYSTEM	FRANKLIN A POWER- 13kWh
RAPID SHUTDOWN:	MICROINVERTERS
RACKING:	IRONRIDGE XR100
ATTACHMENT:	IRONRIDGE FLASHVUE
TILT:	22.5°
AZIMUTH:	264°
INTERCONNECTION:	LOAD SIDE FEEDER TAP



CODES & DESIGN CRITERIA	
ELECTRICAL:	2023 NEC 06/09/2025
BUILDING:	2015 MICHIGAN RESIDENTIAL CODE
DESIGN WIND SPEED:	108 MPH
EXPOSURE CATEGORY:	C
RISK CATEGORY:	II
GROUND SNOW LOAD:	35 PSF



ACCESSORIES	
SNOW GUARDS:	NO
CRITTER GUARDS:	NO



651 W. GALENA PARK BLVD., STE. 101 PHONE (801) 990-1775  
 DRAPER, UTAH 84020 WWW.VECTORSE.COM

INDEX		
PAGE		DESCRIPTION
PV01	TITLE SHEET	
PV02	SITE PLAN/FIRE PATHS	Vector Structural Engineering has reviewed the existing structure with loading from the solar array and screw connections to the existing framing. The design of the racking system, racking connections, and all other structural is by others. Mechanical, architectural, and all other nonstructural aspects of the design are by others. Electrical is by others, unless stamped by Dean Levorsen.
PV03	ARRAY A LAYOUT	
PV04	PV ARRAY WIRING	VSE Project Number: U2683.0655.251
PV05	RACKING & ATTACHMENT DETAILS	
PV06	ELECTRICAL DIAGRAM -PRODUCTION	
PV07	PANELBOARD SCHEDULE	
PV08	EXAMPLE USAGE PROFILE	
PV09	SYSTEM LABELING	

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 848 W RIVER CENTER STE B  
 COMSTOCK PARK, MI 49321  
 616-419-8369



**TIGER SOLAR**

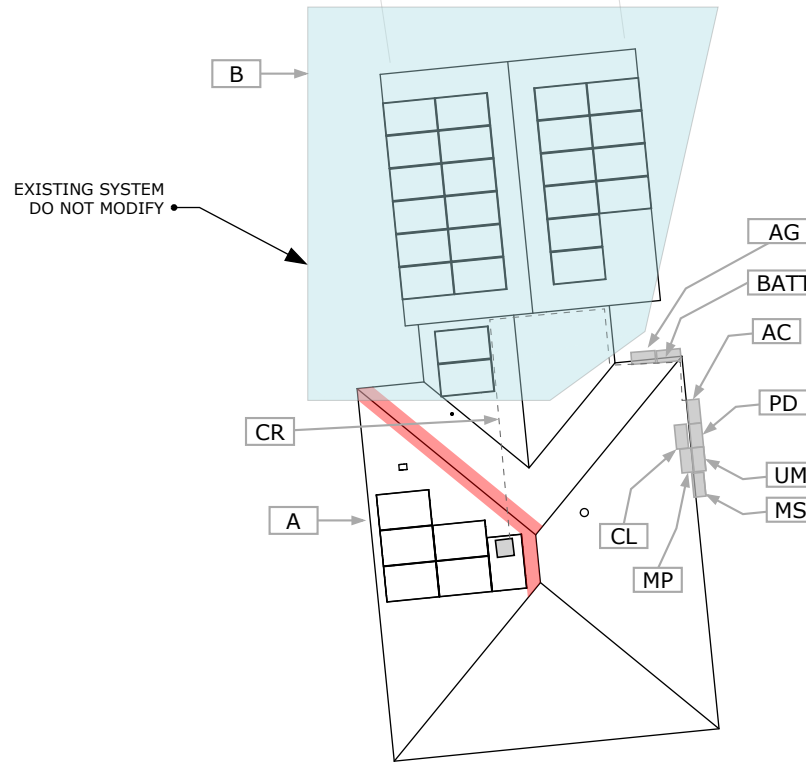
ISSUE  
 06/05/2025  
 RE-ISSUE

PROJECT NAME  
 HUNSINGER, SCOTT-  
 BATTERY ADDITION  
 PROJECT ADDRESS  
 1552 ACADEMY STREET,  
 KALAMAZOO, MI 49006

DRAWN BY  
 O.L  
 DESCRIPTION  
 TITLE SHEET


**PV**  
 01

THIS PHOTOVOLTAIC SYSTEM COMPLIES WITH SECTION R324 OF THE MICHIGAN RESIDENTIAL CODE

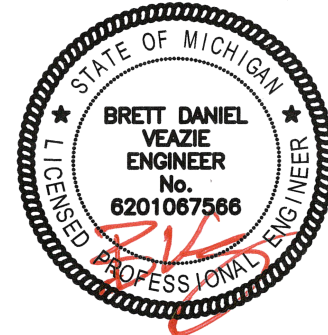


 FIRE ACCESS PATHWAYS

**LEGEND & ABBREVIATIONS**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	NEW PV ARRAY	AC	AC COMBINER PANEL
B	EXISTING ARRAY	PD	PV DISCONNECT
AG	A-GATE	MP	MAIN SERVICE PANEL
	JUNCTION BOX	UM	UTILITY METER
BATT	A POWER BATTERY	CR	CONDUIT RUN (DASHED LINE)
CL	CRITICAL LOADS PANEL	MS	MAIN SERVICE DISCONNECT

**VECTOR ENGINEERS**  
 651 W. GALENA PARK BLVD. STE. 101 DRAPER, UTAH 84020 PHONE (801) 990-1775 WWW.VECTORSE.COM



06/09/2025

VSE Project Number: U2683.0655.251

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1" = 20' 0"

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**TIGER SOLAR**

**ISSUE** 06/05/2025  
**RE-ISSUE**  
**PROJECT NAME** HUNSINGER, SCOTT- BATTERY ADDITION  
**PROJECT ADDRESS** 1552 ACADEMY STREET, KALAMAZOO, MI 49006

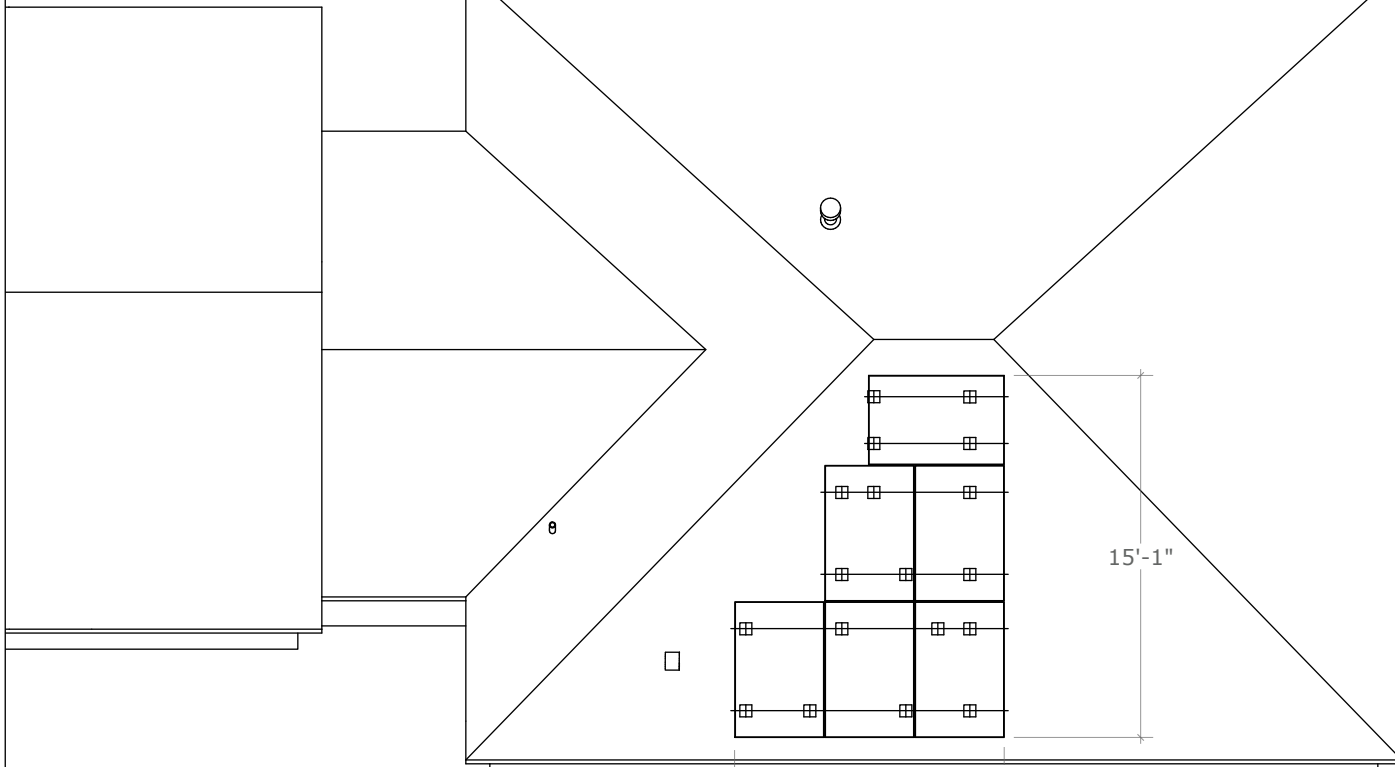
**DRAWN BY** O.L.  
**DESCRIPTION** SITE PLAN/ FIRE PATHS

**PV**

02

ALL ATTACHMENTS STAGGERED  
AT 4' 0" UNLESS OTHERWISE NOTED

ATTACHMENT  
IRONRIDGE FLASHVUE

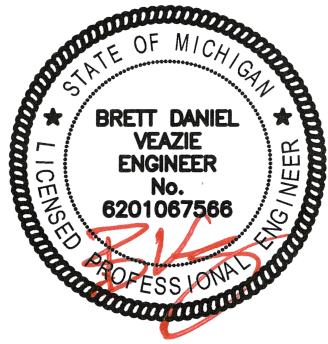


11'-2 7/8"

15'-1"

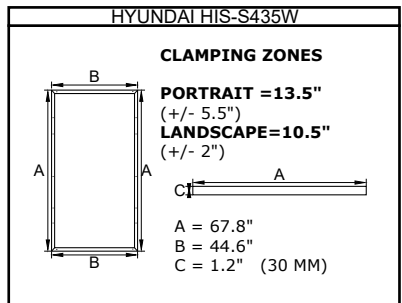


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06/09/2025

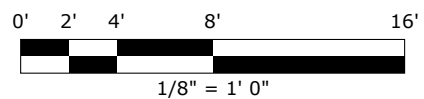
ARRAY A DETAILS	
NUMBER OF PV MODULES	6
ARRAY WEIGHT (LBS)	387.5
TOTAL AREA (FT <sup>2</sup> )	129.1
DISTRIBUTED WEIGHT (PSF)	3.0
NUMBER OF ATTACHMENTS	18
WEIGHT/ATTACHMENT (LBS)	21.5



VSE Project Number: U2683.0655.251

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RACKING		
17' RAIL	14' RAIL	SPLICES
1	3	-



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848 W RIVER CENTER STE B  
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616-419-8369

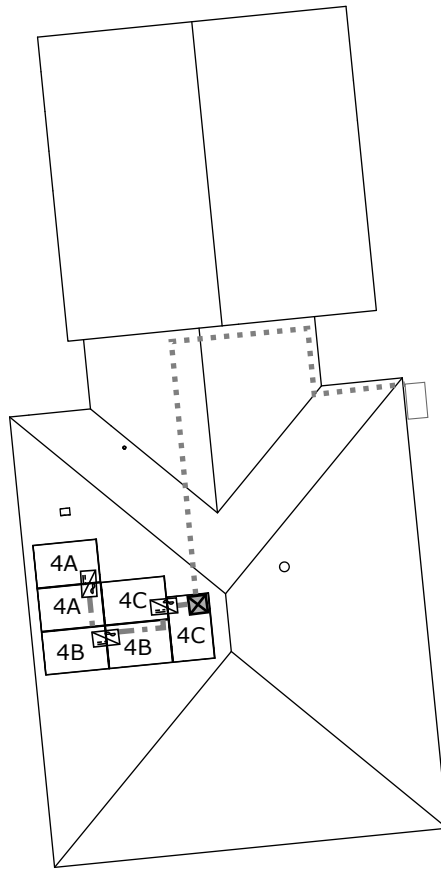






**ISSUE**  
06/05/2025  
**RE-ISSUE**

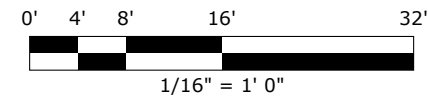
**PROJECT NAME**  
HUNSINGER, SCOTT-  
BATTERY ADDITION  
**PROJECT ADDRESS**  
1552 ACADEMY STREET,  
KALAMAZOO, MI 49006

**DRAWN BY**  
O.L  
**DESCRIPTION**  
ARRAY A LAYOUT





-  - WIRE TRANSITION BOX
-  - AP SMART DS3 MICRO-INVERTERS
-  - AP SMART TRUNK CABLE
-  - RACEWAY ON ROOF



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**TIGER SOLAR**

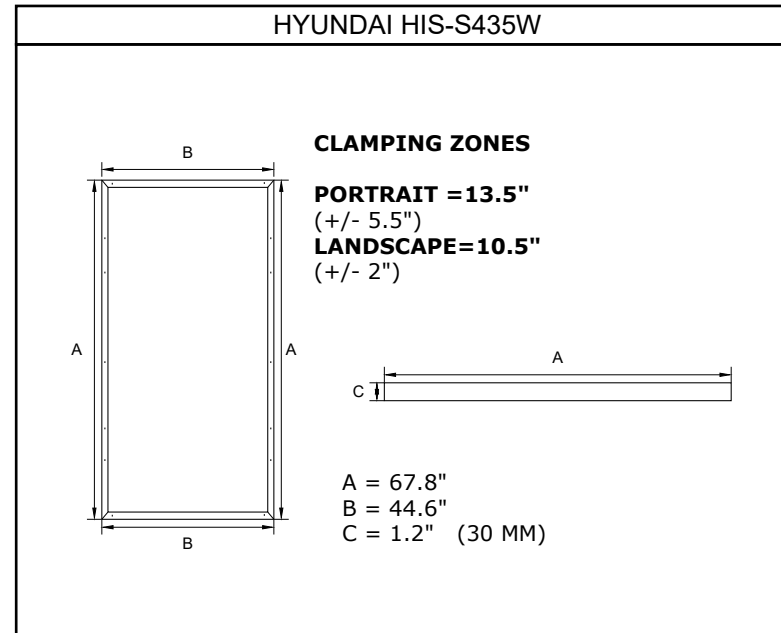
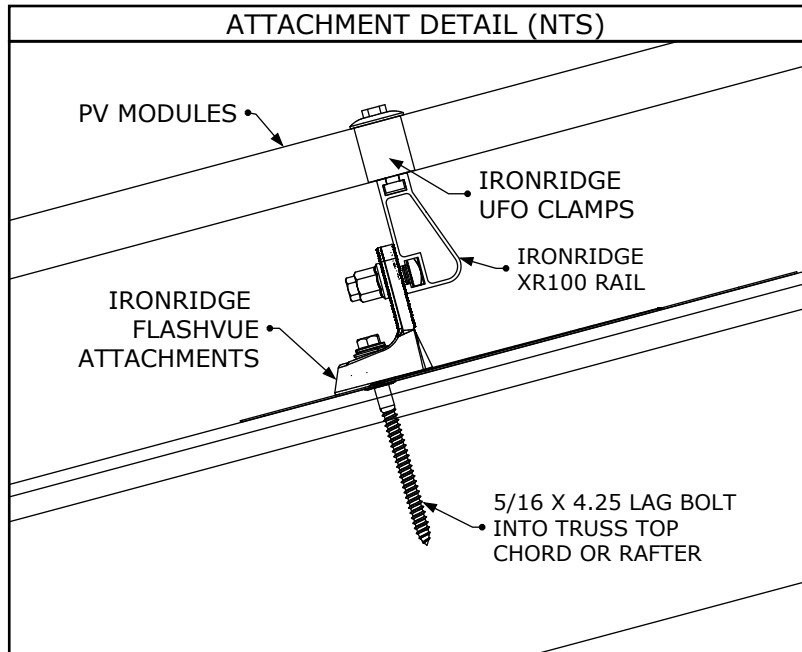
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 KALAMAZOO, MI 49006

**DRAWN BY**  
 O.L.  
**DESCRIPTION**  
 PV ARRAY WIRING

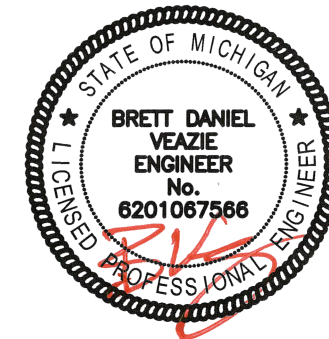
**PV**  
 04



1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL AHJ.
2. ALL EQUIPMENT TO BE INSTALLED PER NEC 110.(3)(B)(1).
3. SOLAR EQUIPMENT TO BE LISTED AND IDENTIFIED PER NEC 690.4(B).
4. BACKFED BREAKERS SHALL BE SUITABLE FOR BACKFEEDING PER NEC 705.12(B)(4).
5. ALL EQUIPMENT INSTALLED OUTDOORS SHALL BE LISTED FOR WET LOCATIONS.
6. PV CIRCUIT RACEWAYS SHALL BE METALLIC WHEN INSTALLED WITHIN BUILDINGS PER NEC 690.31(G) & LABELED EVERY 10' PER NEC 690.31(G)(3).
7. DC TERMINALS TO BE RATED 90° C WHENEVER POSSIBLE. ALL AC & DC TERMINALS TO BE RATED MINIMUM 75° C.
8. ALL METALLIC RACEWAYS TO BE INSTALLED WITH THE BOTTOM OF THE RACEWAY GREATER THAN 7/8" ABOVE ROOF SURFACE.
9. ALL CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED.
10. MODULES ARE GROUNDED TO EACH RAIL WITH GROUNDING CLAMPS. EACH SOLAR RACKING SECTION SHALL BE BONDED PER MANUFACTURER REQUIREMENTS
11. RACEWAY SIZES SPECIFIED ARE THE MINIMUM SIZE REQUIRED PER NEC CHAPTER 9. IF CONDITIONS PRESENT A DIFFICULT PULL, SUCH AS A LONG RUN AND/OR MULTIPLE BENDS, IT IS SUGGESTED TO INCREASE RACEWAY SIZE ABOVE THE MINIMUM REQUIREMENTS.
12. RACEWAYS SHALL BE ARRANGED TO DRAIN PER NEC 225.22



651 W. GALENA PARK BLVD. STE. 101 DRAPER, UTAH 84020 PHONE (801) 990-1775 WWW.VECTORSE.COM



06/09/2025

VSE Project Number: U2683.0655.251

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848 W RIVER CENTER STE B  
COMSTOCK PARK, MI 49321  
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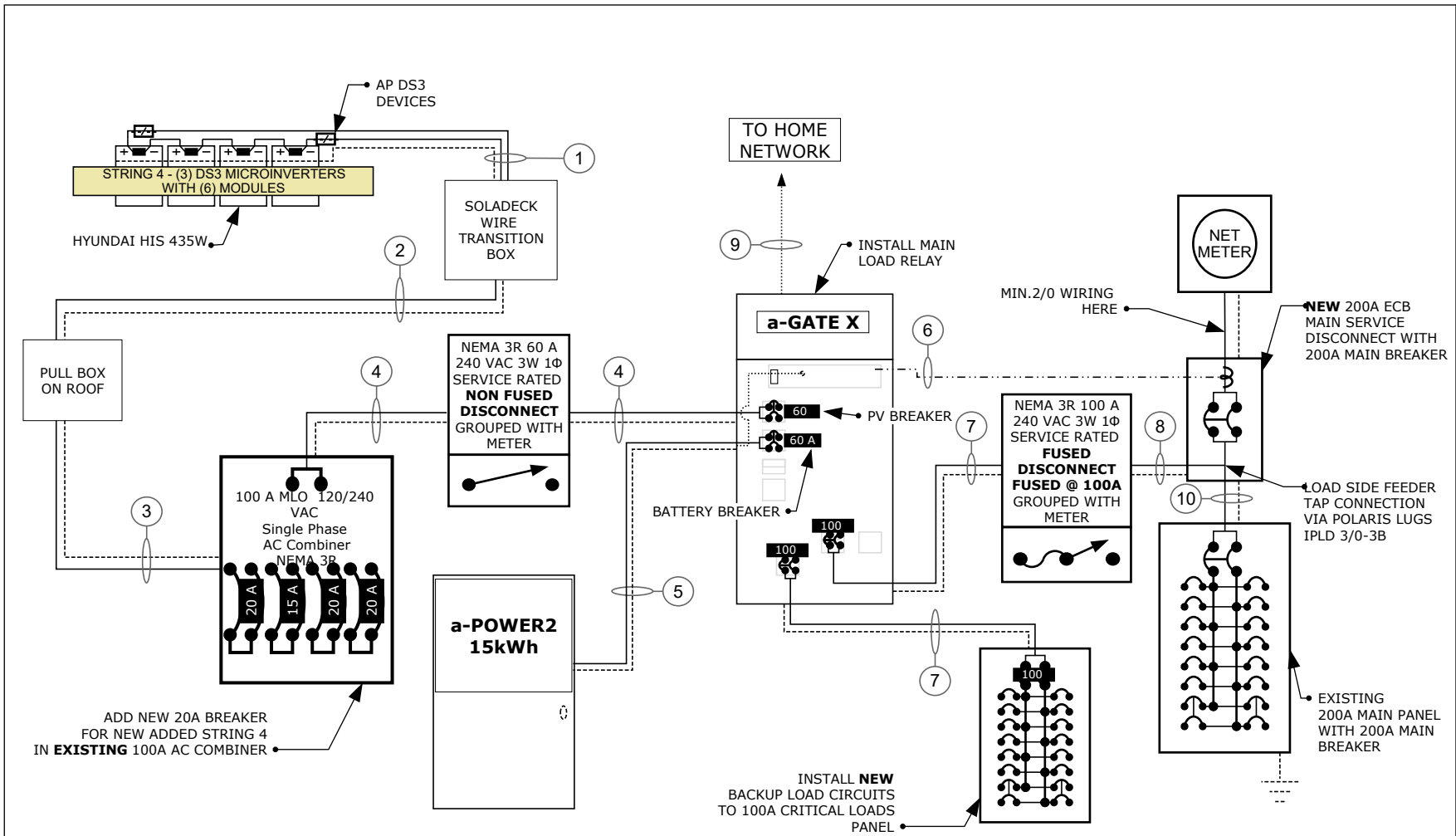
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**PROJECT NAME**  
HUNSINGER, SCOTT-  
BATTERY ADDITION  
**PROJECT ADDRESS**  
1552 ACADEMY STREET,  
KALAMAZOO, MI 49006

**DRAWN BY**  
O.L  
**DESCRIPTION**  
RACKING &  
ATTACHMENT DETAILS

**PV**

05



**CONDUCTOR & RACEWAY SCHEDULE**

CIRCUIT NUMBER	CONDUCTOR	EGC (GROUND)	RACEWAY	NOTES
1	AP TRUNK CABLE	#6 BARE CU GROUND	IN FREE AIR	EXISTING
2	(2) #10 THWN-2	#10 THWN-2 EGC	3/4" EMT	EXISTING
3	(2) #10THWN-2+ EXISTING (6) #10 THWN-2	#10 THWN-2 EGC	3/4" EMT	
4	(3) #6 THWN-2	# 10 THWN-2 EGC	3/4" EMT	
5	(2) #6 THWN-2 + (1) CAT5E 600V RATED COMMS. CABLE	#10 THWN-2 EGC	3/4" EMT	
6	(4) #18 AWM	#10 THWN-2 EGC	3/4" EMT	RUN IN SEPARATE RACEWAY, BOND TO GROUND, USE 300V CAT5E IF EXTENSION IS NEEDED
7	(3) #2 THWN-2	#6 THWN-2 EGC	1 1/4" EMT	
8	(3) #2 THWN-2	#8 THWN-2 EGC	1 1/4" EMT	240.21(B) FEEDER TAP RULES APPLY-MAX CONDUCTOR LENGTH 25 FT.
9	(1) CAT 5E BELDEN CABLE		1/2" EMT	IN FREE AIR IF OUTDOOR RATED
10	(3) # 3/0 THWN-2	#6 THWN-2 EGC	2" PVC	240.21(B) FEEDER TAP RULES APPLY-MAX CONDUCTOR LENGTH 25 FT.

**TIGER SOLAR**  
848 W RIVER CENTER STE B  
COMSTOCK PARK, MI 49321  
616-419-8369



**TIGER SOLAR**

**ISSUE**  
06/05/2025  
**RE-ISSUE**

**PROJECT NAME**  
HUNTSINGER, SCOTT-  
BATTERY ADDITION  
**PROJECT ADDRESS**  
1552 ACADEMY STREET,  
KALAMAZOO, MI 49006

**DRAWN BY**  
O.L  
**DESCRIPTION**  
ELECTRICAL DIAGRAM  
- PRODUCTION

**PV**

06

<b>Select Battery Package</b>	<b>Max. Cont. AC Power in Grid Mode (Watts)</b>	<b>Max. Cont. Current in Grid Mode (Amps)</b>	
(1) FRANKLIN A POWER	-	-	
<b>Usable Battery Capacity (Kilowatt Hours / Watt Hours)</b>	<b>Max. Cont. AC Power in Backup Mode (Watts)</b>	<b>Surge Capacity in Backup Mode (Watts)</b>	<b>Max. Cont. Current in Backup Mode (Amps)</b>
13kWh	5000 W	10000 W	32 A

**TIGER SOLAR**  
848 W RIVER CENTER STE B  
COMSTOCK PARK, MI 49321  
616-419-8369



**TIGER SOLAR**

<b>Select Backup Loads* (if not listed, enter type of load and nameplate rating in Watts in "Power" column)</b>	<b>Enter Quantity (or # of people when prompted)</b>	<b>Enter Hours Used per Day (if differ from auto-populated)</b>	<b>Power (Watts)</b>	<b>Surge/Starting (Watts)</b>	<b>Watt Hours per Day</b>
Backup System Standby Power Consumption	1	24.00	65.00	N/A	1,560.00
Chest Freezer (Energy Star)	1	0.20	450.00	1,350.00	90.00
Lighting (LED, 60-Watt Equiv.)	8	8.00	75.78	75.78	606.31
Refrigerator (Energy Star)	1	8.00	525.00	1,575.00	4,200.00
Furnace Fan 1/8 HP (Gas, Heat Pump, or A/C)	1	8.00	450.00	1,350.00	3,600.00
		<b>TOTAL</b>	<b>1,565.78</b>	<b>4,350.78</b>	<b>10,056.31</b>

**ISSUE**  
06/05/2025  
**RE-ISSUE**

**PROJECT NAME**  
HUNSINGER, SCOTT-  
BATTERY ADDITION  
**PROJECT ADDRESS**  
1552 ACADEMY STREET,  
KALAMAZOO, MI 49006

**With the above-selected battery package, backup loads, and hours used per day\*\*, the system is expected to provide approximately **0.92** days of autonomy, with no additional recharge from the solar PV array.**

**DRAWN BY**  
O.L  
**DESCRIPTION**  
PANELBOARD  
SCHEDULE

**With the above-selected battery package, the estimated minimum solar PV array size required to recharge the batteries in one day during the lowest production month is **5.11**, based on a 30° tilt and 180° azimuth (tilt and azimuth will vary).**

**PV**

**07**

**100A- PANEL LOAD CENTER PANELBOARD**

**100 A 240 VAC 1Φ 3 WIRE NEMA 1 MAIN BREAKER**

DESCRIPTION	CURRENT LOCATION	BREAKER SIZE (A)	WIRE SIZE (# AWG)	POLE	CKT #	CKT #	POLE	WIRE SIZE (# AWG)	BREAKER SIZE (A)	CURRENT LOCATION	DESCRIPTION
CHEST FREEZER	4	20	12	1	1	2	1	12	20	17	REFRIGERATOR
LIGHTING	6A	15	14	1	3	4	1	14	15	11B	LIGHTING
LIGHTING	11A	15	14	1	5	6	2	14	15	6B	FURNACE FAN
LIGHTING	14A	15	14	1	7	8	1	14	15	14B	LIGHTING

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**TIGER SOLAR**

**ISSUE**  
 06/05/2025  
**RE-ISSUE**

**PROJECT NAME**  
 HUNTSINGER, SCOTT-  
 BATTERY ADDITION  
**PROJECT ADDRESS**  
 1552 ACADEMY STREET,  
 KALAMAZOO, MI 49006

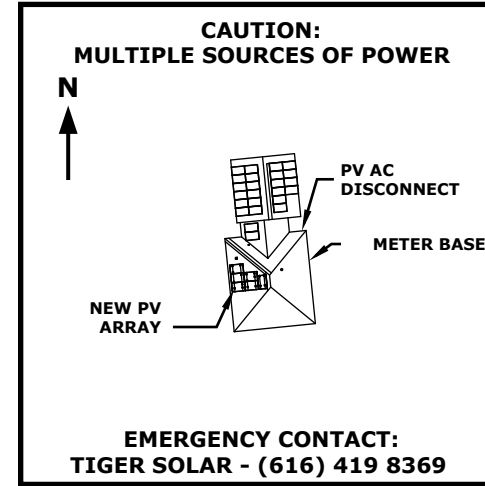
**DRAWN BY**  
 O.L  
**DESCRIPTION**  
 EXAMPLE USAGE  
 PROFILE

**PV**

**08**

1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL AHJ.
2. ALL EQUIPMENT TO BE INSTALLED PER NEC 110.(3)(B)(1).
3. SOLAR EQUIPMENT TO BE LISTED AND IDENTIFIED PER NEC 690.4(B).
4. BACKFED BREAKERS SHALL BE SUITABLE FOR BACKFEEDING PER NEC 705.12(B)(4).
5. ALL EQUIPMENT INSTALLED OUTDOORS SHALL BE LISTED FOR WET LOCATIONS.
6. PV CIRCUIT RACEWAYS SHALL BE METALLIC WHEN INSTALLED WITHIN BUILDINGS PER NEC 690.31(G) & LABELED EVERY 10' PER NEC 690.31(G)(3).
7. DC TERMINALS TO BE RATED 90° C WHENEVER POSSIBLE. ALL AC & DC TERMINALS TO BE RATED MINIMUM 75° C.
8. ALL METALLIC RACEWAYS TO BE INSTALLED WITH THE BOTTOM OF THE RACEWAY GREATER THAN 7/8" ABOVE ROOF SURFACE.
9. ALL CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED.
10. MODULES ARE GROUNDED TO EACH RAIL WITH GROUNDING CLAMPS. EACH SOLAR RACKING SECTION SHALL BE BONDED PER MANUFACTURER REQUIREMENTS
11. RACEWAY SIZES SPECIFIED ARE THE MINIMUM SIZE REQUIRED PER NEC CHAPTER 9. IF CONDITIONS PRESENT A DIFFICULT PULL, SUCH AS A LONG RUN AND/OR MULTIPLE BENDS, IT IS SUGGESTED TO INCREASE RACEWAY SIZE ABOVE THE MINIMUM REQUIREMENTS.
12. RACEWAYS SHALL BE ARRANGED TO DRAIN PER NEC 225.22

EACH SERVICE EQUIPMENT DISCONNECT (INCLUDING DISCONNECTS FOR SUPPLY SIDE CONNECTED SYSTEMS: 705.10



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**TIGER SOLAR**

706.15(C) - ENERGY STORAGE SYSTEM DISCONNECTS

**ENERGY STORAGE SYSTEM  
DISCONNECT**

690.31(D)(2) - DC EXPOSED RACEWAYS,  
ENCLOSURES, AND CONDUIT BODIES

**SOLAR PV DC CIRCUIT**

690.12(D)(2) - RAPID SHUTDOWN INITIATION DEVICES

**RAPID SHUTDOWN SWITCH  
FOR SOLAR PV SYSTEM**

690.7(D) - DC PV SYSTEM DISCONNECTING  
MEANS, POWER CONVERSION EQUIPMENT, &  
DISTRIBUTION EQUIPMENT

**MAXIMUM DC VOLTAGE  
42.98 V  
OF PV SYSTEM**

705.12 (B)(3) - AC COMBINER PANELS

**⚠ WARNING**

THIS EQUIPMENT FED BY  
MULTIPLE SOURCES:  
TOTAL RATING OF ALL OVERCURRENT  
DEVICES EXCLUDING MAIN POWER  
SUPPLY SHALL NOT EXCEED  
AMPACITY OF BUSBAR

705.30(C) - EQUIPMENT WITH  
OVERCURRENT DEVICES SUPPLIED  
FROM MULTIPLE SOURCES

**⚠ WARNING**  
DUAL POWER SOURCE  
SECOND SOURCE IS  
PHOTOVOLTAIC SYSTEM

706.15(C) - ENERGY STORAGE SYSTEM DISCONNECTS

NOMINAL ESS AC VOLTAGE:	240 V
MAXIMUM ESS DC VOLTAGE:	N/A

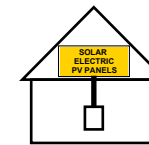
690.13(B) - PV SYSTEM AC & DC DISCONNECTS

**PV SYSTEM DISCONNECT**

690.12(D) - SERVICE EQUIPMENT  
LOCATION

**SOLAR PV SYSTEM EQUIPPED  
WITH RAPID SHUTDOWN**

TURN RAPID  
SHUTDOWN SWITCH  
TO THE  
"OFF" POSITION TO  
SHUTDOWN PV  
SYSTEM AND REDUCE  
SHOCK HAZARD IN  
THE ARRAY



690.13(B), 705.20(7), & 706.15(C) -  
PV & ENERGY STORAGE SYSTEM  
DISCONNECTS WITH LINE/LOAD  
ENERGIZED IN OPEN POSITION

**⚠ WARNING**

**ELECTRICAL SHOCK HAZARD**

TERMINALS ON THE LINE AND  
LOAD SIDES MAY BE ENERGIZED  
IN THE OPEN POSITION

**ISSUE**  
06/05/2025

**RE-ISSUE**

**PROJECT NAME**  
HUNSINGER, SCOTT-  
BATTERY ADDITION  
**PROJECT ADDRESS**  
1552 ACADEMY STREET,  
KALAMAZOO, MI 49006

**DRAWN BY**  
O.L  
**DESCRIPTION**  
SYSTEM LABELING

**PV**

09



**TIGER SOLAR PROJECT COMMISSIONING CLOSEOUT CHECKLIST**

<b>INITIALS</b>	<b>EQUIPMENT CHECKS</b>
	RACKING AND MODULES INSTALLED AND TORQUED TO MANUFACTURER'S SPECS
	MODULE/MLPE WIRING SUPPORTED OFF THE ROOF SURFACE
	RAILS TRIMMED AND RAIL CAPS INSTALLED WITH SILICONE
	CONDUIT SUPPORTED TO NEC SPEC USING APPROPRIATE FITTINGS FOR THE ENVIRONMENT
	EQUIPMENT INSTALLED USING SUFFICIENT ANCHORS/FASTENERS
	WIRING INSTALLED IAW THE DESIGN PACK AND TORQUED TO MANUFACTURER'S SPECS
	<b>ELECTRICAL CHECKS</b>
	INSULATION RESISTANCE TESTING ON CONDUCTORS
	VOLTAGE CHECKS COMPLETED INCLUDING POLARITY CONFIRMATION
	LABELS INSTALLED IN NEC/AHJ REQUIRED LOCATIONS
	FUSES INSTALLED IAW DESIGN PACK (DC AND AC)
	<b>JOBSITE/HOMEOWNER CHECKS</b>
	JOBSITE CLEANED UP - "LEAVE NO TRACE"
	PHOTO CHECKLIST (NEXT PAGE) COMPLETE/PHOTOS UPLOADED TO ALTRANET
	CREATE/UPLOAD AS-BUILT DIAGRAM
	INTERNET CONNECTION ESTABLISHED
	SYSTEM COMMISSIONING (FOLLOW INVERTER MANUFACTURER MANUAL)
	SETUP MONITORING SITE/PLATFORM
	SYSTEM OPERATION OVERVIEW WITH HOMEOWNER

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**TIGER SOLAR**

**ISSUE**  
 06/05/2025

**RE-ISSUE**

**PROJECT NAME**  
 HUNTINGER, SCOTT-  
 BATTERY ADDITION

**PROJECT ADDRESS**  
 1552 ACADEMY STREET,  
 KALAMAZOO, MI 49006

**DRAWN BY**  
 O.L

**DESCRIPTION**  
 COMMISSIONING  
 CLOSEOUT CHECKLIST

**CCC**

**TIGER SOLAR PROJECT COMMISSIONING CLOSEOUT CHECKLIST**

<b>INITIALS</b>	<b>PHOTO CHECKLIST</b>
	ARRAY RACKING BEFORE MODULES ARE INSTALLED
	ALL ARRAY GROUNDING SPECIFICS
	ARRAY JUNCTION/TRANSITION BOXES WITH COMPLETED WIRING/LABELING
	ARRAY MLPE LAYOUT
	ARRAY MLPE MAP
	BOS JUNCTION/TRANSITION BOXES WITH COMPLETED WIRING/LABELING
	ALL CONDUIT BETWEEN ARRAY AND POI
	INSIDE OF INVERTER(S) WITH COMPLETED WIRING/LABELING
	ALL INVERTER GROUNDING
	INSIDE OF COMBINER WITH COMPLETED WIRING/LABELING
	ALL COMBINER GROUNDING
	INSIDE OF AC DISCONNECT(S) WITH COMPLETED WIRING/LABELING
	AC DISCONNECT(S) GROUNDING
	COMPLETED POINT OF INTERCONNECTION
	POINT OF INTERCONNECTION GROUNDING
	COMPLETE ARRAY WITH LADDERS REMOVED
	ALL EQUIPMENT WITH LABELS INSTALLED AND TRASH REMOVED

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**TIGER SOLAR**

**ISSUE**  
 06/05/2025

**RE-ISSUE**

**PROJECT NAME**  
 HUNSINGER, SCOTT-  
 BATTERY ADDITION

**PROJECT ADDRESS**  
 1552 ACADEMY STREET,  
 KALAMAZOO, MI 49006

**DRAWN BY**  
 O.L

**DESCRIPTION**  
 PHOTO CHECKLIST

**CCC**





HOUSE - 20250429 164323



# Historic District Commission Staff Report

City of Kalamazoo

**TO:** The Kalamazoo Historic District Commission

**FROM:** Luis Pena, Historic Preservation Coordinator

**DATE:** July 15, 2025

**SUBJECT:** 4. 422 Stuart - Alteration (Replacement of 3rd story window on the west face of the building.) PPZ25-0035

## PROPOSED WORK:

**From the Description of Work Supplied by the Applicant:** The project scope for this window replacement includes removing interior and exterior trim, installing a new Pella Lifestyles new construction window in the same size as existing, repairing the flashing and sill pan below the window, sealing the new window, and trimming the exterior and interior in the same materials as existing. Upon completion the new window will be painted to match the existing aluminum exterior storm frames and all of the trim, etc.. affected will be painted to match the current colors.

Materials to be included for this project include a new Pella Lifestyles Series awning window, new cedar trim for the exterior, aluminum flashings in complimentary colors, window flashing tape and sealant. The interior trim is intended to be re-used.

## EVALUATION:

### Project Details

Replacement of a non-historic, 3rd story window on the west face of the building. The proposed window will fit into the existing opening and will be aluminum clad.

### Applicable Criteria

#### **Secretary of the Interior's Standards for Rehabilitation**

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.  
*The existing window is non-historic. The removal of the window will not constitute the removal of materials or features that characterize the property.*

6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of

deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

*The existing sash is non-historic, and does not contribute to the historic character of the building. The opening on the building is likely historic, and does contribute to the historic character of the building. The existing opening will be retained in the proposed project.*

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

*The proposed window replacement will not destroy historic materials that characterize the property because the existing sash is non-historic. The existing window opening will be retained and repaired where necessary. The new window will be differentiated from the historic through the use of modern materials, and through the awning sash operation. Because the proposed window will fit into the existing opening, it will be compatible with the historic property.*

10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

*Because the proposed window will be installed into the existing opening, it could be removed in the future without impairing the form or integrity of the historic property.*

## **Local Historic District Standards and Guidelines**

### Windows

- The dimension of the original window must be retained.
  - *The proposed window will retain the size of the existing opening.*

### Discussion

The proposed window replacement will remove a deteriorating, non-historic window. The new window will fit the existing opening, and the surrounding trim will be retained, and repaired, where necessary.

## **POTENTIAL ACTIONS:**

1. The proposed work complies with the Secretary of the Interior standards 2, 6, 9 and 10. **Action: Motion to approve a Certificate of Appropriateness for the work as described in the application.**
2. More information is needed. **Action: Motion to postpone until the HDC meeting on 19 August 2025 and direct the applicant to provide the requested materials and information to the Historic Preservation Coordinator by noon on 12 August 2025.**

3. Denial of the application. **Action: Motion to deny the application based on Secretary of the Interior Standards 2, 6, 9 and 10.**



Community Planning and Economic Development  
 Historic District Commission  
 245 N. Rose Street  
 Kalamazoo, MI 49007  
 Telephone: (269) 337-8804; FAX (269) 337-8513  
[Penal@kalamazoo.org](mailto:Penal@kalamazoo.org)

**APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing**

**COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month.**

(PLEASE PRINT CLEARLY - See instructions on reverse side)

Property Address: 422 Stuart Avenue  
 Historic District:  South/Vine  Stuart  West Main Hill  Rose Place  Haymarket  
 Applicant: Arnie Blok (Blok Builders, Inc) Owner: Tristan and Emily Wilson  
 Mailing Add: 5942 West N Avenue Mailing Add: 422 Stuart Avenue  
 City State & Zip: Kalamazoo, MI 49009 City, State Zip: Kalamazoo, MI 49007  
 Phone: 269-552-8393 Phone: \_\_\_\_\_  
 Email: arnie @ blokbuilders.com Email: emily @ newseasonspt.com

Contractor Blok Builders, Inc

**Work to be done by owner**

**Proposed Work:** Use additional sheets to describe work if necessary

See attached letter.

( AB ) *This property has at least one working smoke detector for each dwelling unit.*  
 (Owner or applicant's initials) (Required) \* see back

Applicant's Signature: Arnie Blok Date: 7-7-2025  
 Owner's Signature: [Signature] Date: 7/8/2025  
 (if different)

**APPLICATION CHECKLIST:**  
*Include all these items are in your submission. Incomplete applications will be held until the next review hearing.*

- Drawings 11x17 or smaller with dimensions
- Materials list
- Site plan including north arrow
- Other:
- \$85 for HDC hearing & review fee – must be paid in advance to be placed on agenda – include WITH application – *Check payable to: City of Kalamazoo*

**-For Historic Preservation Coordinator's Use Only-**

Case Number: PPZ- 25-0035 Date Received\*: 07/08/2025  
 Zoning RM15 Year built 1884 Complete application \_\_\_\_\_  
 Owned since 03/07/2014

**COMMISSION** Hearing fee paid \$85 \_\_\_\_\_  
 Meeting Date 07/15/2025 Check # \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**Approve in Concept** Date \_\_\_\_\_ Letter mailed \_\_\_\_\_

**FINAL ACTION**

Approve  Site Visit  Approve w/Conditions  Deny  Postpone  Withdrawn  
 ACTION DATE \_\_\_\_\_  
 Certificate of Appropriateness Issued \_\_\_\_\_  
 Notice of Denial with appeals information \_\_\_\_\_  
 Notice to Proceed \_\_\_\_\_ Comments \_\_\_\_\_

Revised November 22, 2019

# APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing

**COMPLETE Applications for review at the Historic District Commission meeting including payment of the \$85 hearing fee must be received by NOON on the 2nd Tuesday of the month- the meeting is on the 3rd Tuesday of the month. Incomplete applications will be postponed until the next meeting.**

## ***Filling out the application – instructions and tips – PLEASE PRINT.***

**Property address:** street address of the property where the work will be done

**Historic district:** Stuart, South Street/Vine Area, Haymarket, West Main Hill or Rose Place

**Applicant:** Owner or the owner's contractor.

**Owner:** Legal owner of property

**Mailing Address:** Applicant's address

**Mailing Address:** Owner's address

**City, State & Zip:**

**City, State & Zip:**

**Phone:** Specify home or work

**Phone:** Specify home or work

**Email**

**Email**

**Name of the contractor if this project requires a building permit Or indicate  work done by owner**

**Proposed Work:** What work do you plan to do? Please be as specific as possible including a complete description of the part of the structure where work will be done.

**Example #1:** Rather than "Build new garage"

Say "Build new two car garage near northeast corner of lot, wooden frame with clapboard siding, paneled metal overhead door, service door on the north side and one window at the rear. "

**Example #2:** Instead of "New front door"

Say "Install a new wooden front door to fit original opening in width and height, to replace the existing metal paneled door. See drawing/photo for appearance" Specify the measurements of the width and height of the original opening. Include a storm door if that is part of the project

For more complex projects, please include as many **continuation or illustration sheets** as you need to present a clear picture to the commission of your proposed work.

- Drawings – black or blue black ink on white paper. Electronic submissions are encouraged. Drawings should include dimensions of the existing part of the building and the proposed work.
- You need submit only one set of drawings; city staff will make the necessary copies.
- Use the checklist to be sure you have supplied all the important information.
- For new construction ) exterior stairs, new garage, reconstructing a porch, etc) a site plan WITH a north arrow is required.

\*( \_\_\_\_\_ ) This property has at least one working smoke detector for each dwelling unit. Please initial to verify at least one working smoke detector in each dwelling unit. This is REQUIRED by state law or the application will be considered incomplete.

**PHOTOS: The historic preservation coordinator is responsible for taking photographs of the proposed work and the structure. If you wish to take additional photos, one set is usually adequate for the commissioners to examine. You may also bring photos on a USB drive to share with the commission.**

**Emergency repairs:** If damage occurs to a structure in a historic district, which requires emergency repairs, steps may be taken to secure the structure without the approval of the commission or the coordinator. Cover damaged windows or holes in a roof with tarps or wood to prevent further damage. Support dangling or loose elements or remove and store them. Notify the Coordinator of the damage to the structure on the first weekday available after the damage occurs and the coordinator will visit the structure as well as arranging a site visit by commission members to approve repairs if necessary. **THIS WILL BE DONE AS QUICKLY AS POSSIBLE IN ORDER TO FACILITATE REPAIRS OF THE STRUCTURE IN A TIMELY MANNER.**

*If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at: (269) 337-8804 or by email at [Penal@kalamazoo-city.org](mailto:Penal@kalamazoo-city.org)*

# APPLICATION FOR PROJECT REVIEW – Historic District Commission Hearing

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**Email**

**Email**

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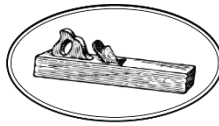
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*If you have questions about completing this application for project review, please call the Historic Preservation Coordinator at: (269) 337-8804 or by email at [Penal@kalamazocity.org](mailto:Penal@kalamazocity.org)*



# BLOK BUILDERS

FINE CUSTOM HOMES & REMODELING

5942 West N Ave  
Kalamazoo, MI 49009  
269-375-8268  
[www.blokbuilders.com](http://www.blokbuilders.com)

**Community Planning and Economic Development  
Historic District Commission  
245 N. Rose Street  
Kalamazoo, MI 49007  
Historic District Application Letter  
RE: 422 Stuart Avenue, Kalamazoo MI 49009  
C/O: Luis Pena**

To Whom it May Concern:

This letter is intended to address the proposed project scope and relevant information for a historic district repair.

The third story bedroom window in the upper west facing gable at 422 Stuart Avenue is leaking and in need of replacement. The current window is an aluminum 'slide-by' insert window in a heavily aged window jamb - it is circled in red in the attached picture.

The project scope for this window replacement includes removing interior and exterior trim, installing a new Pella Lifestyles new construction window in the same size as existing, repairing the flashing and sill pan below the window, sealing the new window, and trimming the exterior and interior in the same materials as existing. Upon completion the new window will be painted to match the existing aluminum exterior storm frames and all of the trim, etc.. affected will be painted to match the current colors.

Materials to be included for this project include a new Pella Lifestyles Series awning window, new cedar trim for the exterior, aluminum flashings in complimentary colors, window flashing tape and sealant. The interior trim is intended to be re-used.

This application seeks permission to use the Pella Lifestyles series awning window for this application. The Pella Lifestyles series awning window is being proposed for several reasons: 1) The Lifestyles series are a high end and high performing window while also maintaining historically accurate styles. 2.) Due to the nature of the window being on the third story and hard to maintain the aluminum clad exterior will provide for a lower maintenance alternative allowing longer durability. 3.) The original window was undoubtedly a fixed sash unit meaning it would have looked more similar to an awning than the current slide by configuration. 4.) The nature of the awning window allows more ventilation and more appropriate egress needs than other options available for this size and configuration.

Attached to this application are a picture showing the relevant window, the quote showing size/configuration/etc for the new window, and a brochure from Pella showcasing the Lifestyle series window specifications.

We appreciate your concern to this matter and look forward to working together to improve the functionality and durability of this beautiful historic home while also taking into consideration the historic appropriateness of the products used.

Respectfully Submitted,  
Arnie Blok  
[arnie@blokbuilders.com](mailto:arnie@blokbuilders.com)  
269-552-8393



## Contract - Detailed

Pella Window and Door Showroom of Kalamazoo  
 6150 Lovers Lane  
 Portage, MI 49002-3026

**Sales Rep Name:** Stanley, Steve  
**Sales Rep Phone:** (269) 207-6029  
**Sales Rep Fax:** 616-234-1970  
**Sales Rep E-Mail:** SSTANLEY@PELLABYHORNE.COM

Customer Information	Project/Delivery Address	Order Information
<b>BLOK BUILDERS, INC</b> 5942 West N. Ave  KALAMAZOO, MI 49009 <b>Primary Phone:</b> (269) 375-8268 <b>Mobile Phone:</b> <b>Fax Number:</b> <b>E-Mail:</b> office@blokbuilders.com <b>Contact Name:</b>  <b>Great Plains #:</b> 200BLOKBUI <b>Customer Number:</b> 1002184027 <b>Customer Account:</b> 1000270348	<b>WILSON, TRISTAN / EMILY</b> 422 Stuart Ave.  <b>Lot #</b> KALAMAZOO, MI 49007 <b>County:</b> KALAMAZOO <b>Owner Name:</b> BLOK BUILDERS, INC <b>Owner Phone:</b> (269) 375-8268	<b>Quote Name:</b> Repl Awning - LS2 Order 7/7/25  <b>Order Number:</b> 193KJ4640A <b>Quote Number:</b> <b>19599599</b> <b>Order Type:</b> Non-Installed Sales <b>Wall Depth:</b> <b>Payment Terms:</b> Net 20 Days <b>Tax Code:</b> TAXABLE <b>Cust Delivery Date:</b> 7/7/2025 <b>Quoted Date:</b> 6/6/2025 <b>Contracted Date:</b> 7/7/2025 <b>Booked Date:</b> <b>Customer PO #:</b>

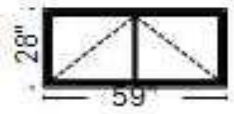
Customer Notes: CST CONTACT: Arnie Blok <arnie@blokbuilders.com> // 269-552-8393

\*\*\* CURRENT EST LEAD TIME - Up To 5 WEEKS \*\*\*  
 FOR ORDER per Arnie 7/7/25  
 \* Opt1 LS-2 ( No Egress )

REPL AWNING per Arnie 6/6/25

REVISED per Arnie notes - Order 7/29/24  
 \* Nearest Std. Size  
 \* Primed Int @ 5 9/16"  
 \* Champagne Hdwr / Screens

Line #	Location:	Attributes	Item Price	Qty	Ext'd Price
10	Opt1 5928 AWN	<b>Lifestyle, Awning, Vent, 59 X 28, Without HGP, White</b>	\$1,300.04	1	\$1,300.04



PK #  
2208

Viewed From Exterior

**1: 5928 Vent Awning**  
**Frame Size:** 59 X 28  
**General Information:** No Package, Without Hinged Glass Panel, Clad, Pine, 5", 3 11/16"  
**Exterior Color / Finish:** Standard Enduraclad, White  
**Interior Color / Finish:** Prefinished White Paint Interior  
**Glass:** Insulated Low-E Advanced Low-E Insulating Glass Argon Non High Altitude  
**Hardware Options:** Large Awning Hardware, Fold-Away Crank, Satin Nickel, No Limited Opening Hardware, No Integrated Sensor, Sill  
**Screen:** Full Screen, Champagne, InView™  
**Performance Information:** U-Factor 0.29, SHGC 0.25, VLT 0.47, CPD PEL-N-37-00716-00001, Performance Class LC, PG 30, Calculated Positive DP Rating 30, Calculated Negative DP Rating 30, FPA FL20532, STC 25, OITC 22, Egress Not Applicable  
**Grille:** SDL, No Custom Grille, 7/8", Traditional (2W1H)  
**Wrapping Information:** Foldout Fins, Factory Applied, No Exterior Trim, 3 11/16", 5", Factory Applied, Manufacturer Recommended Clearance, Perimeter Length = 174".

**Rough Opening:** 59 - 3/4" X 28 - 3/4"

Customer Notes: Std. LifeStyles-Dual Wood-Alum Clad ( NO EGRESS ) - Max Vent Opening Approx. 10"

## Thank You For Purchasing Pella® Products

### PELLA WARRANTY:

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor the Seller will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

**INSYNCTIVE PRODUCTS:** In addition, Pella Insynctive Products are covered by the Pella Insynctive Products Software License Agreement and Pella Insynctive Products Privacy Policy in effect at the time of sale, which can be found at [Insynctive.pella.com](https://www.pella.com). By installing or using Your Insynctive Products you are acknowledging the Insynctive Software Agreement and Privacy Policy are part of the terms of sale.

Notice of Collection of Personal Information: We may collect your personal information when you interact with us. Under the California Consumer Privacy Act (CCPA), California residents have specific rights to request this information, request to delete this information, and opt out of the sharing or sale of this information to third parties. To learn more about our collection practices and your rights under the CCPA please visit our link <https://www.pella.com/california-rights-policy/> at [pella.com](https://www.pella.com).

### ARBITRATION AND CLASS ACTION WAIVER ("ARBITRATION AGREEMENT")

**YOU and Pella and its subsidiaries and the Pella Branded Distributor AGREE TO ARBITRATE DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS (INCLUDES PELLA GOODS AND PELLA SERVICES) AND WAIVE THE RIGHT TO HAVE A COURT OR JURY DECIDE DISPUTES. YOU WAIVE ALL RIGHTS TO PROCEED AS A MEMBER OR REPRESENTATIVE OF A CLASS ACTION, INCLUDING CLASS ARBITRATION, REGARDING DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS.** You may opt out of this Arbitration Agreement by providing notice to Pella no later than ninety (90) calendar days from the date You purchased or otherwise took ownership of Your Pella Goods. To opt out, You must send notice by e-mail to [pellawebsupport@pella.com](mailto:pellawebsupport@pella.com), with the subject line: "Arbitration Opt Out" or by calling (877) 473-5527. Opting out of the Arbitration Agreement will not affect the coverage provided by any applicable limited warranty pertaining to Your Pella Products. For complete information, including the full terms and conditions of this Arbitration Agreement, which are incorporated herein by reference, please visit [www.pella.com/arbitration](http://www.pella.com/arbitration) or e-mail to [pellawebsupport@pella.com](mailto:pellawebsupport@pella.com), with the subject line: "Arbitration Details" or call (877) 473-5527. D'ARBITRAGE ET RENONCIATION AU RECOURS COLLECTIF ("convention d'arbitrage") EN FRANÇAIS SEE [PELLA.COM/ARBITRATION](http://PELLA.COM/ARBITRATION). DE ARBITRAJE Y RENUNCIA COLECTIVA ("acuerdo de arbitraje") EN ESPAÑOL VER [PELLA.COM/ARBITRATION](http://PELLA.COM/ARBITRATION).

Seller shall not be held liable for failure or delay in the performance of its obligations under this Agreement, if such performance is hindered or delayed by the occurrence of an act or event beyond the Seller's reasonable control (force majeure event), including but not limited to earthquakes, unusually severe weather and other Acts of God, fire, strikes and labor unrest, epidemics, riots, war, civil unrest, and government interventions. Seller shall give timely notice of a force majeure event and take such reasonable action to mitigate the impacts of such an event.

### Product Performance Information:

U-Factor, Solar Heat Gain Coefficient (SHGC), and Visible Light Transmittance (VLT) are certified by the National Fenestration Rating Council (NFRC).

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at [www.pella.com](http://www.pella.com)

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Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any products and does not warrant the suitability of any product for any specific use.

Design Pressure (DP), Performance Class, and Performance Grade (PG) are certified by a third party organization, in many cases the Window and Door Manufacturers Association (WDMA). The certification requires the performance of at least one product of the product line to be tested in accordance with the applicable performance standards and verified by an independent party. The certification indicates that the product(s) of the product line passed the applicable tests. The certification does not apply to mulled and/or product combinations unless noted. Actual product results will vary and change over the products life.

For more performance information along with information on Florida Product Approval System (FPAS) Number and Texas Dept. of Insurance (TDI) number go to [www.pella.com/performance](http://www.pella.com/performance).

Including during the construction period, casement windows should never be left open and unlocked for prolong periods or during high wind conditions to avoid sash detachment/damage.

Actual sizes tested for documented STC and OITC ratings may vary from the ASTM E 1425 sizes to better represent Pella product offering.

STC and OITC ratings shown may be conservatively based on products tested with thinner panes of glass.

STC and OITC ratings may be from test results from an equivalent product.

## WARRANTY:

### CONDITION OF SALE:

1. **TERMINATION OR CANCELLATION.** This Contract may be canceled or terminated by Horne Building Specialties, Inc. ("Horne") by written notification to the undersigned ("Buyer") within fourteen days from the signature date of the Contract. All Pella products are custom manufactured for the specific customer and project. Accordingly, this order/contract cannot be changed or returned. If the customer chooses to cancel this contract/order, the customer agrees to pay a cancellation fee of 65% of the contract/order price.

1.1 **QUOTED PRICING.** Quoted pricing is valid for 7 full calendar days from issuance of the quote (the full day following the date on the quote shall constitute the first day and pricing is good through 11:59 p.m. on the 7th calendar day).

2. **CREDIT APPROVAL.** This contract is conditional upon credit approval by Horne's credit department. Credit approval may take up to three days.

3. **PLACE OF PAYMENT.** All payments made to Horne pursuant to this Contract should be made to Horne Building Specialties, Inc. 2120 Oak Industrial Dr., Grand Rapids, Michigan 49505.

4. **WAREHOUSING.** Seller will warehouse Buyer's order for up to sixty (60) calendar days after the later of (1) the need date established by the Buyer at the time of order, or (2) the date the product arrives at Seller's warehouse. If buyer does not take delivery within the 60 day period the full balance of this purchase agreement will become due and payable within ten (10) calendar days.

5. **DELIVERY.** Horne will not be responsible for delays caused directly or indirectly by labor disputes, weather, fire, war, pandemic, epidemic, Covid 19 ( or any strain or resurgence thereof), governmental interference, natural disaster, transportation delays, shortage or unavailability of material or products, acts of GOD, or other causes beyond the control of Horne.

6. **INSPECTION.** Unless specifically stated otherwise in the Contract, Title to the products shall transfer at time of delivery. Delivery is F.O.B. Buyers address, or the address of delivery as identified in the contract. At such time, protection, care and insurance of the products shall be the responsibility of Buyer and/or Owner. Buyer agrees to carefully inspect the products which are the subject of the

Contract upon delivery and immediately report to Horne in writing any shortage or damage sustained in transit. Horne is not responsible for any such shortage or damage to the products referred to in this Contract unless (a) Horne receives a written claim from Buyer within seven (7) days of delivery, and (b) Horne is otherwise responsible for the shortage or damage. Buyer agrees that, upon delivery, Buyer has full and sole responsibility for, and assumes all risk associated with unloading, loading, insuring, transporting and/or otherwise handling the products, whether for the Buyer or for delivery to the Buyer's customers, and for any costs or expenses incurred. In the event there exists a conflict between this provision and any term, condition, or provision contained in this agreement (or ancillary agreements), this provision shall control. In no event shall Horne be responsible or liable to Buyer or Buyer's customer for any personal injury or property damage (including damage to the products) that results from loading or handling of the products, regardless of whether Buyer requests or an employee of Horne offers assistance. Buyer agrees to indemnify and hold harmless Horne from and against all claims, loss, liability, or expense (including attorney fees) arising out of or in any way connected with the loading or handling of products after delivery.

7. LATE CHARGES. In the event that the contract price is not paid when due, Buyer shall pay a late fee on the sums due at the rate of 1.5% per month. Buyer agrees to pay to Horne any and all costs incurred by Horne in collecting amounts due from Buyer, including late charges, which cost include, but are not necessarily limited to, collection agency fees, court costs, and attorney's fees.

8. WARRANTIES. Warranties as to products manufactured by Pella or any other manufacturer are those warranties of and extended by the manufactures and no other. Warranties as to Pella products are as stated in the brochure entitled "Pella Windows & Doors Limited Warranty". Buyer acknowledges receipt of a copy of this brochure. The warranties and disclaimer of warranties contained therein, and those of any other manufacturer, are incorporated into this Contract by reference. Unless otherwise stated by the manufacturer any warranty applicable to any goods or services forming the basis for this contact are extended only to the original buyer, are not assignable, and may not be enforced by any person, firm, or organization to whom the goods are subsequently transferred. Any warranty hereunder is void if the product to which the warranty applies has been altered, modified, or improperly installed.

9. DISCLAIMER OF WARRANTY. Horne warrants that the goods are as described as in the agreement. No other warranty is given and no affirmation of fact or promise made by Horne or its agents, by work or action, shall constitute or imply a warranty. HORNE MAKES NO WARRANTY OF MERCHANTABILITY IN RESPECT TO THE GOODS SOLD PURSUANT TO THIS CONTRACT. HORNE MAKES NO WARRANTY THAT THE GOODS SOLD PURSUANT TO THIS CONTRACT ARE FIT FOR ANY PARTICULAR PURPOSE.

10. **LIMITATIONS OF REMEDIES.** In the event that Horne elects to replace any product or part thereof referred to in this Contract, whether as the result of a breach of warranty or otherwise, the replacement product or part will be a comparable or suitable substitute if a like unit is not readily and reasonably available.

The warranty period on the replacement product or part will be the balance of the warranty on the original product purchased. HORNE WILL NOT BE LIABLE TO BUYER FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST REVENUES AND PROFITS OR ATTORNEY'S FEES. IN NO EVENT SHALL THE RESPONSIBILITY OF HORNE EXCEED THE CONTRACT PRICE.

11. **LIMITATIONS OF ACTION.** Any and all legal proceedings commenced by Buyer with regard to this Contract, if not otherwise subject to a limitation of remedy or claim pursuant to the terms and conditions of this Contract, must be commenced within one year of the date of delivery or, in the case of a warranty claim, within one year of the date on which the basis for the claim was, or reasonably should have been, discovered. The failure to commence legal proceedings within the time limits set forth in this paragraph shall constitute a waiver by Buyer of any and all claims Buyer may have with regard to this Contract.

12. **BUYER'S CHOICE OF PRODUCT.** Buyer affirms that the Buyer has had an ample opportunity to examine models or samples of the goods to the extent that the Buyer desires to do so, and Buyer affirms that the choice to purchase the specific type or model of goods described in this Contract was made by Buyer. Buyer acknowledges responsibility for compliance with laws, ordinances, rules, regulations, and lawful orders of public authorities relating to the suitability and installation of the products which are the subject of this Contract. Horne specifically disclaims such responsibility, which disclaimer is acknowledged by Buyer.

12.1 **DISCLAIMER OF THIRD PARTY WARRANTIES.** As additional consideration in support of the sale of goods between Horne and Buyer, Buyer acknowledges and consents to the following:

**Third Party Products.** This order may contain products ("Third Party Products") that have not been manufactured by Horne, Pella Corporation ("Pella") or their affiliates or subsidiaries. Buyer acknowledges that the sale of the Third Party Products by Horne does not constitute a recommendation or endorsement of such products by Horne or Pella.

Warranty Disclaimer. HORNE AND PELLA MAKE NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, RELATING TO THE THIRD PARTY PRODUCTS AND EXPRESSLY DISCLAIM AND EXCLUDE ALL WARRANTIES OF ANY KIND RELATING TO THE THIRD PARTY PRODUCTS, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Sole Remedy. BUYER EXPRESSLY ACKNOWLEDGES AND AGREES THAT ITS SOLE REMEDY WITH RESPECT TO DEFECTS OR DAMAGE ASSOCIATED WITH THE THIRD PARTY PRODUCTS IS AGAINST THE MANUFACTURER OF THE THIRD PARTY PRODUCTS UNDER ANY APPLICABLE MANUFACTURER'S WARRANTY TO THE EXTENT AVAILABLE TO BUYER.

Damages. BUYER EXPRESSLY ACKNOWLEDGES AND AGREES THAT HORNE SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE FOR ANY EXEMPLARY, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES RESULTING FROM THE INSTALLATION, OPERATION, OR FAILURE OF THE THIRD PARTY PRODUCTS, WHETHER BASED UPON CLAIMS OF WARRANTY, CONTRACT, OR TORT (INCLUDING NEGLIGENCE).

13. GOVERNING LAW. This agreement is governed by and shall be construed in accordance with the laws of the State of Michigan, without reference to its conflict-of-law provisions.

14. DISPUTES. Any dispute arising out of or relating to this Agreement or its breach that cannot be resolved in the normal course of business will be submitted to mediation. The parties will be required to engage in a good-faith effort to settle the dispute by mediation as a condition precedent to the institution of arbitration, litigation, or other binding adjudication. The mediation will be confidential. Unless agreed among all the parties or required to do so by law, the parties and the mediator will not disclose to any person who is not associated with participants in the process any information regarding the process, contents, settlement terms, or outcome of the proceeding.

Should mediation be insufficient to resolve a dispute between the parties, such claims or disputes shall be subject to and decided by arbitration in accordance with, and at Horne's option, the Construction Industry Arbitration Rules of either the West Michigan Chapter of the Better Business Bureau or the American Arbitration Association, unless the parties mutually agree otherwise. A demand for arbitration shall be filed in writing with the other party to this Agreement. Such demand for arbitration shall be made within ninety (90) days after the claim or dispute has arisen. In no event shall the demand for arbitration be made after the date when institution of legal

or equitable proceedings based on such claim or dispute would have been barred by the applicable statute of limitations. The award rendered by the arbitrator or arbitrators shall be final, and the judgement may be entered upon it in accordance with the applicable law in any court having jurisdiction thereof. Nothing herein shall be deemed a waiver of Horne's right to file a Claim of Lien under Michigan's Construction Lien Act, MCLA 570.1101 et seg. In the event a lien is filed, the validity of the item and determination of the lien amount may be decided by arbitration as set forth above, and a judgement of foreclosure based upon the lien may enter against the property in a court of appropriate jurisdiction.

Third Party Products: \_\_\_\_\_

\_\_\_\_\_

Customer \_\_\_\_\_

Date \_\_\_\_\_

15. MERGER AND ENTIRE AGREEMENT. This Contract constitutes the sole and complete agreement between Buyer and Horne, and no statement, representation, or agreement, written or verbal, not appearing on this Contract order shall be enforceable, except for change orders prepared on a form furnished by Horne and signed by Horne and Buyer or their authorized agent.

16. EXISITNG WINDOW & DOOR TREATMENTS (FOR CONTRACTS THAT INCLUDE INSTALLATION BY HORNE). Horne will make every attempt to reapply any existing window or door treatments using existing hardware and/or mounting fixtures provided to the installation team at the time of installation. However, because your windows and doors could be slightly different, your existing treatments may not fit correctly. Because of this, HORNE CANNOT GUARANTEE THAT YOUR EXISTING TREATMENTS WILL FIT PROPERLY. The application and/or purchase of new window or door treatments will be the sole financial responsibility of the building

or homeowner in the event that existing treatments cannot be reapplied.

17. PRODUCT NEED DATE SPECIFIED BY CUSTOMER. \_\_\_\_\_

18. A SERVICE CHARGE OF 2.5% WILL BE APPLIED TO ALL CARD PURCHASES.

19. Counterparts and/or Multiple Originals. This agreement may be executed in several counterparts and/or multiple originals, each of which shall be deemed an original, and all of which shall constitute but one and the same instrument. For purposes of this agreement, facsimile, e-mail scanned, and pdf signatures, as well as e-signatures and those signed by way of an electronic device such as an iPad, shall be considered the same as original signatures and shall be treated as valid and binding upon the parties.

Arnie Blok

Customer Name (Please print)

Pella Sales Rep Name (Please print)

Customer Signature

Pella Sales Rep Signature

Date

Date

Credit Card Approval Signature

**Order Totals**

Taxable Subtotal	\$1,300.04
Sales Tax @ 6%	\$78.00
Non-taxable Subtotal	\$0.00
<b>Total</b>	<b>\$1,378.04</b>
<b>Deposit Received</b>	<b>\$0.00</b>
<b>Amount Due</b>	<b>\$1,378.04</b>



Pella®  
Lifestyle  
Series



## Exceptional performance and solutions for real life

Designed to deliver exceptional performance and create room-by-room solutions with time-tested innovations like Security Sensors and Integrated Blinds and Shades (with or without motorization).

- Pella® Lifestyle Series is the #1 performing wood window and patio door for the combination of energy, sound and value.<sup>1</sup>
- Begin with dual- or triple-pane glass and then select from the most desired features and options. Available performance solutions offer an unbeatable combination of energy efficiency, sound control and value.<sup>1</sup>
- Offering everything you love about wood – including beauty, durability and style flexibility and covered by the industry's best limited lifetime warranty for wood windows and patio doors.<sup>2</sup>
- Packed with purposeful innovations like Integrated Blinds and Shades that are accessible and located between the glass, protected from dust and damage and optional built-in window and door sensors for added security and convenience\*.
- Pella® Lifestyle Series windows and patio doors with Integrated Blinds and Shades have been recognized by Parents for Window Blind Safety and have been awarded as Best for Kids.
- Certain triple-pane products have been awarded the Quiet Mark Certification in recognition of outstanding acoustic performance making Pella the first U.S. window manufacturer to be awarded this seal.<sup>3</sup>



Available with factory-installed integrated security sensors.



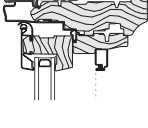
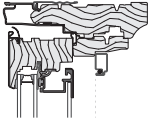
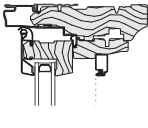
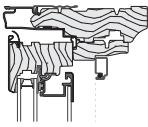
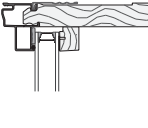
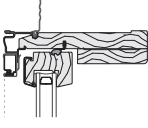
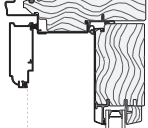
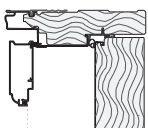
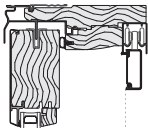
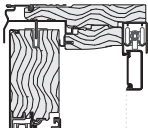
Wood Windows  
and Patio Doors

1. Performance solutions offering an unbeatable combination of energy efficiency, sound control and value require upgrades to triple-pane, AdvancedComfort Low-E and mixed glass thickness. Based on comparing product quotes and published STC/OITC and U-Factor ratings of leading national wood window and patio door brands.

2. Based on comparing written limited warranties of leading national wood window and wood patio door brands.

3. The Quiet Mark Certification applies to select products only. For a complete list, visit <https://www.quietmark.com/brands/pella-windows-and-doors>.

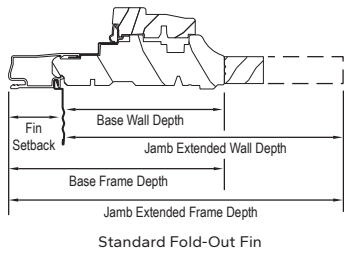
\*Requires the Insynctive App on a smart device, an Insynctive Bridge and a wireless home Internet router with Internet connection.

		Cross Section	Frame / Install	Wall Depth Range	Performance Range
Awning Vent and Fixed	Dual-Pane		Standard Fold-out Fin Block Frame	Base Frame Depth: 5" Std. Fin Setback: 1-5/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	LC30 – LC50 U: 0.25 – 0.34 SHGC: 0.18 – 0.51 STC: up to 32
	Triple-Pane		EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5" Std. Fin Setback: 1-5/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	R20 – CW50 U: 0.19 – 0.27 SHGC: 0.15 – 0.42 STC: up to 37
Casement Vent and Fixed	Dual-Pane		Standard Fold-out Fin Block Frame	Base Frame Depth: 5" Std. Fin Setback: 1-5/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	LC30 – LC50 U: 0.23 – 0.34 SHGC: 0.18 – 0.58 STC: up to 31
	Triple-Pane		EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5" Std. Fin Setback: 1-5/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	R20 – LC50 U: 0.18 – 0.28 SHGC: 0.18 – 0.49 STC: up to 37
Fixed Frame Direct Set	Rectangle		Standard Fold-out Fin Block Frame EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5" Std. Fin Setback: 1-3/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	F-CW30 – F-AW90 U: 0.17 – 0.48 SHGC: 0.20 – 0.68 STC: up to 38
Double-Hung Vent	Dual-Pane		Standard Fold-out Fin Block Frame EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5" Std. Fin Setback: 1-5/16" Base Wall Depth: 3-11/16" Jamb Extended Wall Depth: 3-11/16" – 9-3/16"	LC30 – LC50 U: 0.25 – 0.34 SHGC: 0.20 – 0.48 STC: up to 31
In-Swing Patio Door	Dual-Pane		Standard Fold-out Fin Block Frame	Base Frame Depth: 5-7/8" Extended Frame Depth: 5-7/8" - 8-5/8" Std. Fin Setback: 1-5/16" Base Wall Depth: 4-9/16" Extended Wall Depth: 4-9/16" - 7-5/16"	LC50 U: 0.24 – 0.31 SHGC: 0.14 – 0.41 STC: up to 32
	Triple-Pane		EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5-7/8" Extended Frame Depth: 5-7/8" - 8-5/8" Std. Fin Setback: 1-5/16" Base Wall Depth: 4-9/16" Extended Wall Depth: 4-9/16" - 7-5/16"	LC55 U: 0.23 – 0.28 SHGC: 0.12 – 0.34 STC: up to 35
Sliding Patio Door	Dual-Pane	 Model-4	Standard Fold-out Fin Block Frame	Base Frame Depth: 5-7/8" Std. Fin Setback: 1-5/16" Base Wall Depth: 4-9/16" Jamb Extended Wall Depth: 4-9/16" - 9-3/16"	R20 – LC50 U: 0.24 – 0.33 SHGC: 0.18 – 0.51 STC: up to 32
	Triple-Pane		EnduraClad Exterior Trim / Brickmould	Base Frame Depth: 5-7/8" Std. Fin Setback: 1-5/16" Base Wall Depth: 4-9/16" Jamb Extended Wall Depth: 4-9/16" - 9-3/16"	R25 – CW60 U: 0.22 – 0.29 SHGC: 0.14 – 0.44 STC: up to 36

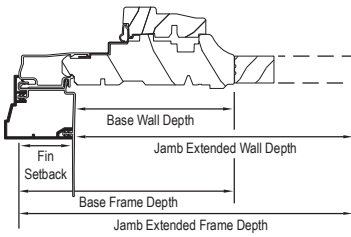
Performance ranges shown are for single units and do not account for combinations (multiple units mulled together). Drawings are not to scale.

# Brand Overview

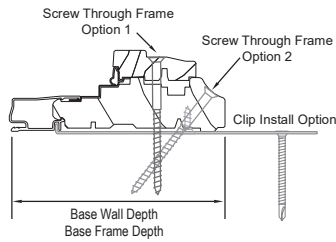
## Window Frame Dimensions



Standard Fold-Out Fin

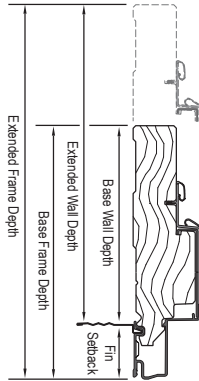


EnduraClad Exterior Trim / Brickmould

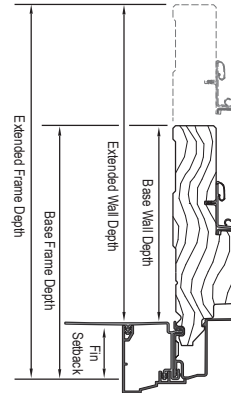


Block Frame / Installation Clip

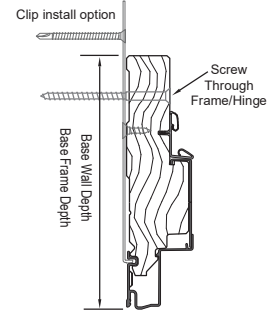
## In-Swing Door Frame Dimensions



Standard Fold-Out Fin



EnduraClad Exterior Trim / Brickmould



Block Frame / Installation Clip



For installation instructions visit <https://www.pella.com/professionals/installation-instructions/>  
Use this Quick-Read (QR) code with your mobile device for quick access.

You may need to first install a QR code reading app. An Internet connection is required.



### Rolscreen® Retractable Screens

Optional Rolscreen retractable screen rolls out of sight when you're not using it, so the screen stays protected.

Soft-closing retractable screens are available for casement windows and sliding patio doors.

WARNING: Screen will not stop child or pet from falling out of window or door. Keep child or pet away from open window or door.

## Finishes

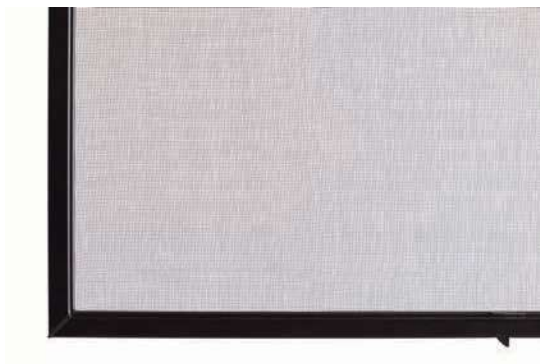
### EnduraClad® Protective Finish Options: Dual- and Triple-Pane



### Interior Prefinished Colors: Dual- and Triple-Pane



## Screens



### InView™ Screen

Standard screen on Pella wood windows and patio doors, as well as Rolscreen® retractable screen on casement windows and sliding patio doors.

Vinyl coated 18/18 mesh fiberglass. Complies with performance requirements of SMA 1201.

Because of printing and display limitations, actual colors may vary from those shown.

# Brand Overview

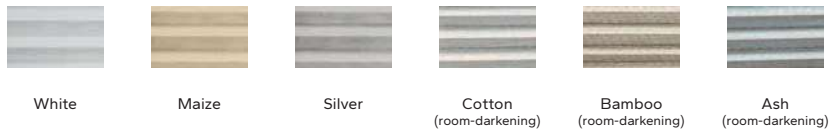
## Between-the-Glass Options

Pella® Lifestyle Series Between-the-Glass options include **Raise-and-Lower Slimshade Blinds** that raise, lower and tilt and **Fabric Shades** in various levels of transparency, energy efficiency, and sound absorption.

### Slimshade Blinds



### Between-the-Glass Fabric Shades

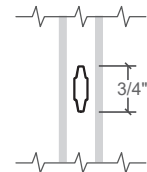


## Grilles

For a full list of grille size and pattern availability, contact your local Pella sales representative.

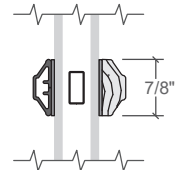
### Grilles-Between-the-Glass<sup>1</sup>

- Permanent aluminum grilles are factory-installed inside the airspace of insulating glass
- Black, White, Brown, Fossil, Ivory, Harvest, or Cordovan interior
- Exterior finish is White, Black or matches aluminum-cladding color
- Grilles are 3/4" wide



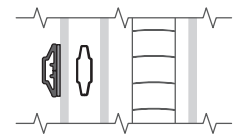
### Simulated-Divided-Light Grilles (with optional spacer) (Dual-Pane)

- Permanent aluminum grilles are bonded to the exterior of the glass, wood grilles are bonded to the interior of the glass
- Exterior finish matches aluminum-cladding color
- Grilles are 7/8" wide
- Interior colors match interior finish

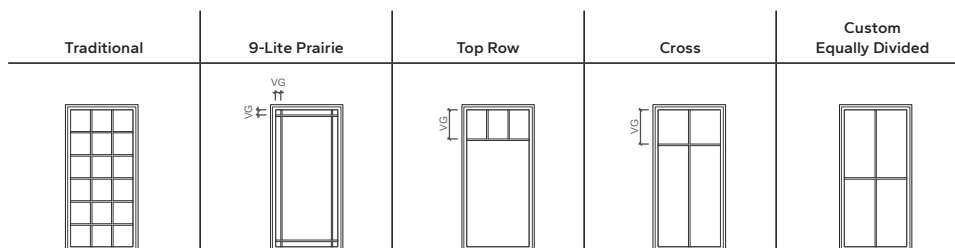


### Simulated-Divided-Light with Grilles-Between-the-Glass (Triple-Pane)<sup>2</sup>

- Permanent aluminum grilles are factory-installed inside the airspace of insulating glass
- Permanent aluminum grilles are bonded to the exterior of the glass
- Exterior finish matches aluminum-cladding color
- Grilles are 3/4" wide
- Interior colors coordinate with the interior finish



## Available Patterns



Pattern availability may vary depending on size of unit.  
Custom configurations are also available; for details contact your local Pella sales representative.

(1) Appearance of exterior grille color may vary depending on the Low-E insulating glass selection.

(2) Consult your local Pella sales representative for current availability.

Because of printing limitations, actual colors may vary slightly from those shown.

## Hardware

### Essential Collection



### Finishes



## Performance Packages

Available performance solutions offer an unbeatable combination of energy efficiency, sound control and value.\*

Base	Performance	Sound Control	Energy Efficiency	Ultimate Performance
<p>Low-E</p> <p>EXTERIOR      INTERIOR</p>	<p>Low-E 270</p> <p>EXTERIOR      INTERIOR</p> <p>clear (HGP)</p> <p>clear</p>	<p>Low-E 270</p> <p>EXTERIOR      INTERIOR</p> <p>clear (HGP)</p> <p>clear</p>	<p>Low-E 270</p> <p>EXTERIOR      INTERIOR</p> <p>189 (Hard Coat)</p> <p>clear (HGP)</p>	<p>Low-E 270</p> <p>EXTERIOR      INTERIOR</p> <p>189 (Hard Coat)</p> <p>clear (HGP)</p>
<p>Advanced Low-E AdvancedComfort Low-E SunDefense Low-E NaturalSun Low-E</p> <p>Two panes of insulating, energy-efficient glass and our most popular features and options.</p>	<p>Advanced Low-E SunDefense Low-E or NaturalSun Low-E</p> <p>A triple-pane glass design for a combination of both improved energy efficiency and sound performance.</p>	<p>Advanced Low-E SunDefense Low-E NaturalSun Low-E</p> <p>Triple-pane glass design featuring mixed glass thicknesses for enhanced sound dampening.</p>	<p>AdvancedComfort Low-E SunDefense+ Low-E NaturalSun+ Low-E</p> <p>A triple-pane glass design with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.</p>	<p>AdvancedComfort Low-E SunDefense+ Low-E NaturalSun+ Low-E Sound-reduction glazing</p> <p>A triple-pane glass design featuring mixed glass thicknesses with upgraded AdvancedComfort Low-E glass for enhanced energy efficiency.</p>

\*Performance solutions require upgrades to triple-pane, Low-E and mixed glass thickness. Based on comparing product quotes and published STC/OITC and U-Factor ratings of leading national wood window and patio door brands.

Because of printing limitations, actual colors may vary slightly from those shown.

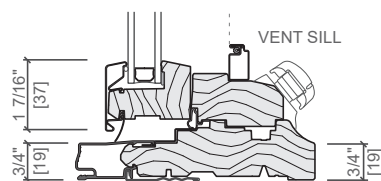
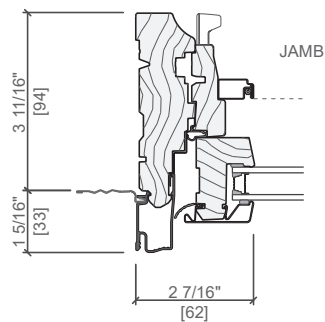
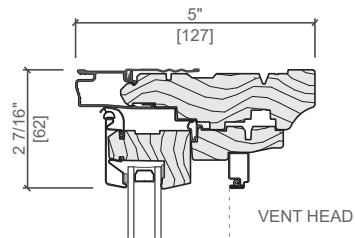


Pella®  
Lifestyle  
Series

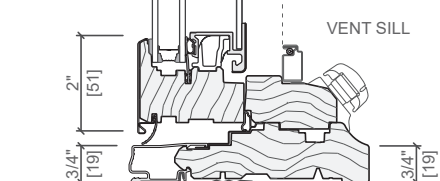
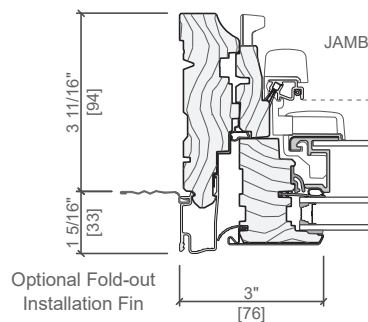
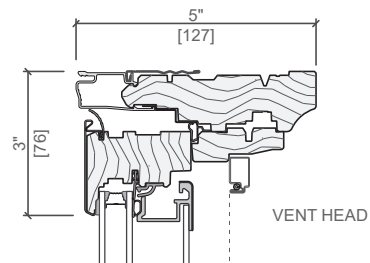
Awning



### Dual-Pane



### Triple-Pane



Optional Fold-out  
Installation  
Fin

Other frame types are available.

Not to scale. All dimensions are approximate.

## Triple-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	R20 – CW50	7.5 psf	0.05	20 – 50 psf	40

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
Vent Units 1 1/16" glass thickness, 2.5mm and 3mm, with clear ML (Triple-Pane)	Advanced Low-E IG	0.24 – 0.26	0.21 – 0.23	0.37 – 0.42	66 – 69	NC, SC, S
	SunDefense™ Low-E IG	0.23 – 0.26	0.16 – 0.17	0.34 – 0.39	67 – 70	NC, SC, S
	SunDefense+ Low-E IG	0.19 – 0.21	0.15 – 0.17	0.34 – 0.38	73 – 76	CA, N, NC, SC, S
	AdvancedComfort Low-E IG	0.19 – 0.21	0.20 – 0.22	0.36 – 0.41	73 – 75	CA, N, NC, SC, S
	NaturalSun Low-E IG	0.24 – 0.26	0.37 – 0.42	0.42 – 0.47	66 – 69	CA, N, NC
	NaturalSun+ LowE IG	0.20 – 0.21	0.34 – 0.38	0.41 – 0.46	73 – 75	CA, N, NC

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC		
	Vent; 59" x 23"	11/16" Overall IG thickness with Hinged-Glass-Panel	5mm/3mm/4mm (ML)	34	32	
	Vent, with Shade; 59" x 23"		5mm/3mm/4mm (ML)	35	32	
	Vent, with Blind; 59" x 23"		5mm/3mm/4mm (ML)	34	32	
	Vent; 59" x 23"		2.5mm/2.5mm/2.5mm (ML)	31	27	
	Vent, with Shade; 59" x 23"		2.5mm/2.5mm/2.5mm (ML)	33	28	
	Vent, with Blind; 59" x 23"		2.5mm/2.5mm/2.5mm (ML)	32	27	
	Fixed; 47" x 59"	11/16" Overall IG thickness with Hinged-Glass-Panel	5mm/3mm/4mm (ML)	35	30	
			Fixed, with Shade; 47" x 59"	5mm/3mm/4mm (ML)	37	31
			Fixed, with Blind; 47" x 59"	5mm/3mm/4mm (ML)	35	30
			Fixed; 47" x 59"	3mm/3mm/3mm (ML)	33	27
			Fixed, with Shade; 47" x 59"	3mm/3mm/3mm (ML)	35	29
			Fixed, with Blind; 47" x 59"	3mm/3mm/3mm (ML)	34	27

Code Approvals: Hallmark Certified; FPAS#: Vent=11883, Fixed=11877, TDI#: Vent=WIN-675, Fixed=WIN-619

## Dual-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	LC30	4.6 - 14.62 psf	0.05	30 - 50 psf	40

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
Vent Units 1 1/16" glass thickness, 2.5mm and 3mm, Dual-Pane	Advanced LowE IG	0.29 – 0.33	0.25 – 0.28	0.46 – 0.51	52 – 57	–
	SunDefense™ Low-E IG	0.28 – 0.32	0.19 – 0.21	0.43 – 0.48	53 – 57	SC, S
	SunDefense+ Low-E IG	0.25 – 0.28	0.18 – 0.20	0.42 – 0.46	41 – 46	NC, SC, S
	AdvancedComfort Low-E IG	0.25 – 0.28	0.25 – 0.27	0.45 – 0.50	40 – 45	NC
	NaturalSun LowE IG	0.30 – 0.34	0.46 – 0.51	0.52 – 0.58	52 – 57	–
	NaturalSun+ LowE IG	0.26 – 0.29	0.42 – 0.47	0.51 – 0.57	40 – 44	CA, N

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC	
	Vent; 59" x 23"	11/16" Overall thickness	2.5mm / 2.5mm glass	25	22
			5mm / 3mm glass	32	28
	Fixed; 47" x 59"	11/16" Overall thickness	3mm / 3mm glass	28	24
			5mm / 3mm glass	30	28

\* Sound testing result shown for vent awning is taken from a similarly configured vent casement

Code Approvals: Hallmark Certified; FPAS#: Vent = 20532; Fixed = 20653; TDI#: Vent = WIN-2172; Fixed = WIN-2173

See the Performance section earlier in this manual to learn more about performance standards and ratings.

Performance varies based on actual product attributes.



# Standard Sizes – Dual-Pane

## Vent and Fixed Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
1' 5"	1717 (30) (F)	2117 (30) (F)	2317 (30) (F)	2517 (30) (F)	2917 (30) (F)	3217 (30) (F)	3517 (30) (F)	4117 (30) (F)	4717 (30) (F)	5317 (30) (F)	5917 (30) (F)
1' 9"	1721 (30) (F)	2121 (30) (F)	2321 (30) (F)	2521 (30) (F)	2921 (30) (F)	3221 (30) (F)	3521 (30) (F)	4121 (30) (F)	4721 (30) (F)	5321 (30) (F)	5921 (30) (F)
1' 11"	1723 (30) (F)	2123 (30) (F)	2323 (30) (F)	2523 (30) (F)	2923 (30) (F)	3223 (30) (F)	3523 (30) (F)	4123 (30) (F)	4723 (30) (F)	5323 (30) (F)	5923 (30) (F)
2' 1"	1725 (30) (F)	2125 (30) (F)	2325 (30) (F)	2525 (30) (F)	2925 (30) (F)	3225 (30) (F)	3525 (30) (F)	4125 (30) (F)	4725 (30) (F)	5325 (30) (F)	5925 (30) (F)
2' 5"	1729 (30) (F)	2129 (30) (F)	2329 (30) (F)	2529 (30) (F)	2929 (30) (F)	3229 (30) (F)	3529 (30) (F)	4129 (30) (F)	4729 (30) (F)	5329 (30) (F)	5929 (30) (F)
2' 8"	1732 (30) (F)	2132 (50) (F)	2332 (30) (F)	2532 (30) (F)	2932 (30) (F)	3232 (30) (F)	3532 (30) (F)	4132 (30) (F)	4732 (30) (F)	5332 (50) (F)	5932 (30) (F)
2' 11"	1735 (30) (F)	2135 (50) (F)	2335 (30) (F)	2535 (30) (F)	2935 (30) (F)	3235 (30) (F)	3535 (30) (F)	4135 (30) (F)	4735 (30) (F)	5335 (30) (F)	5935 (30) (F)
3' 5"	1741 (30) (F)	2141 (50) (F)	2341 (30) (F)	2541 (30) (F)	2941 (30) (F)	3241 (30) (F)	3541 (30) (F)	4141 (30) (F)	4741 (30) (F)	5341 (30) (F)	5941 (30) (F)
3' 11"	1747 (30) (F)	2147 (30) (F)	2347 (30) (F)	2547 (30) (F)	2947 (30) (F)	3247 (30) (F)	3547 (30) (F)	4147 (30) (F)	4747 (30) (F)	5347 (30) (F)	5947 (30) (F)
4' 5"	1753 (30) (F)	2153 (30) (F)	2353 (30) (F)	2553 (30) (F)	2953 (30) (F)	3253 (30) (F)	3553 (30) (F)	4153 (30) (F)	4753 (30) (F)	5353 (30) (F)	5953 (30) (F)
4' 11"	1759 (30) (F)	2159 (30) (F)	2359 (30) (F)	2559 (30) (F)	2959 (30) (F)	3259 (30) (F)	3559 (30) (F)	4159 (30) (F)	4759 (30) (F)	5359 (30) (F)	5959 (30) (F)

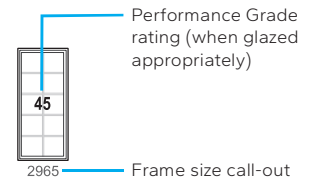
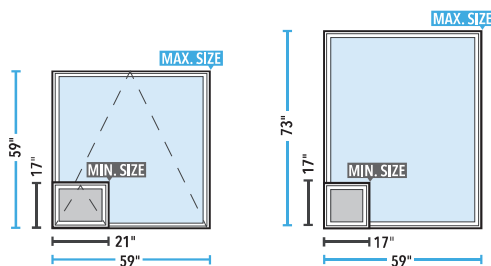
## Fixed Units

	(1 670) (1 651)	(1 822) (1 803)	(1 873) (1 854)	(1 670) (1 651)	(1 822) (1 803)	(1 873) (1 854)	(1 670) (1 651)	(1 822) (1 803)	(1 873) (1 854)	(1 670) (1 651)	(1 822) (1 803)	(1 873) (1 854)
Opening	5' 5 3/4"	5' 11 3/4"	6' 1 3/4"	5' 5 3/4"	5' 11 3/4"	6' 1 3/4"	5' 5 3/4"	5' 11 3/4"	6' 1 3/4"	5' 5 3/4"	5' 11 3/4"	6' 1 3/4"
Frame	5' 5"	5' 11"	6' 1"	5' 5"	5' 11"	6' 1"	5' 5"	5' 11"	6' 1"	5' 5"	5' 11"	6' 1"
5' 5"	1765 (50) (T)	2165 (50) (T)	2365 (50) (T)	2565 (50) (T)	2965 (30) (T)	3265 (30) (T)	3565 (30) (T)	4165 (30) (T)	4765 (30) (T)	5365 (30) (T)	5965 (30) (T)	
5' 11"	1771 (50) (T)	2171 (50) (T)	2371 (50) (T)	2571 (50) (T)	2971 (30) (T)	3271 (30) (T)	3571 (30) (T)	4171 (30) (T)	4771 (30) (T)	5371 (30) (T)	5971 (30) (T)	
6' 1"	1773 (50) (T)	2173 (50) (T)	2373 (50) (T)	2573 (50) (T)	2973 (30) (T)	3273 (30) (T)	3573 (30) (T)	4173 (30) (T)	4773 (30) (T)	5373 (30) (T)	5973 (30) (T)	

# Special Sizes – Dual-Pane

Special sizes are available in 1/4" increments.

Frame height cannot exceed frame width on special size dual-pane vent units.



Not to scale.  
 (F) Fixed units only.  
 (T) Tempered required due to aspect ratio.

# Standard Sizes – Triple-Pane

## Vent and Fixed Units

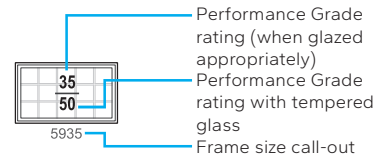
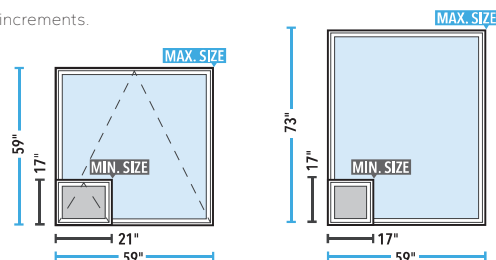
	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)	(1 060) (1 041)	(1 213) (1 194)	(1 365) (1 346)	(1 518) (1 499)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"	3' 5 3/4"	3' 11 3/4"	4' 5 3/4"	4' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"	3' 5"	3' 11"	4' 5"	4' 11"
1' 5"	(451)	(552)	(603)	(654)	(756)	(832)	(908)	(1 060)	(1 213)	(1 365)	(1 518)
1' 9"	(432)	(533)	(584)	(635)	(737)	(813)	(889)	(1 041)	(1 194)	(1 346)	(1 499)
1' 11"	(603)	(603)	(603)	(654)	(756)	(832)	(908)	(1 041)	(1 194)	(1 346)	(1 499)
2' 1"	(654)	(654)	(654)	(654)	(756)	(832)	(908)	(1 041)	(1 194)	(1 346)	(1 499)
2' 5"	(756)	(756)	(756)	(756)	(756)	(832)	(908)	(1 041)	(1 194)	(1 346)	(1 499)
2' 8"	(832)	(832)	(832)	(832)	(832)	(832)	(908)	(1 041)	(1 194)	(1 346)	(1 499)
2' 11"	(908)	(908)	(908)	(908)	(908)	(908)	(908)	(1 041)	(1 194)	(1 346)	(1 499)
3' 5"	(1 060)	(1 060)	(1 060)	(1 060)	(1 060)	(1 060)	(1 060)	(1 060)	(1 213)	(1 365)	(1 518)
3' 11"	(1 213)	(1 213)	(1 213)	(1 213)	(1 213)	(1 213)	(1 213)	(1 213)	(1 213)	(1 365)	(1 518)
4' 5"	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 365)	(1 518)
4' 11"	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)	(1 518)

## Fixed Units

5' 5"	(1 670)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)	(1 651)
5' 11"	(1 822)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)	(1 803)
6' 1"	(1 873)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)	(1 854)

# Special Sizes – Triple-Pane

Special sizes are available in 1/4" increments.



Performance Grade rating (when glazed appropriately)  
 Performance Grade rating with tempered glass  
 Frame size call-out

Not to scale.

ⓕ Fixed units only.

ⓐ Tempered required due to aspect ratio.



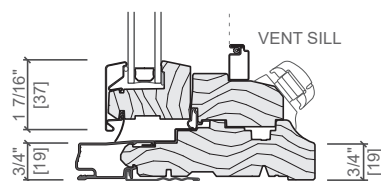
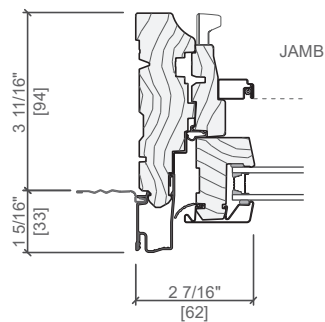
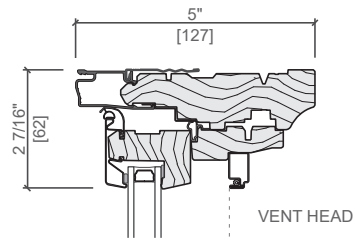


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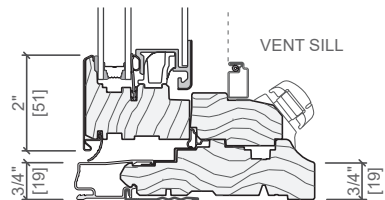
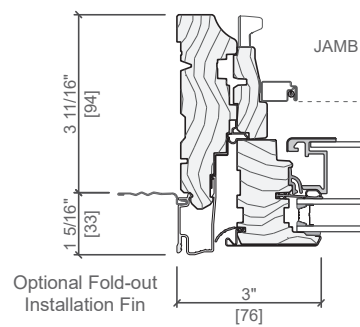
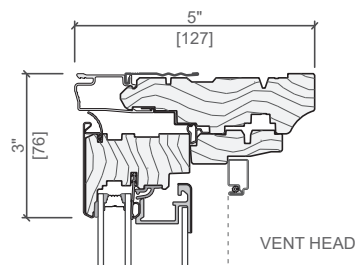
Casement



### Dual-Pane



### Triple-Pane



Other frame types are available. Not to scale. All dimensions are approximate.

## Triple-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	R20 – CW50	7.5 psf	.05	20 – 50 psf	40

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
Vent Units 11/16" glass thickness, 2.5mm and 3mm, with clear ML (Triple-Pane)	Advanced LowE IG	0.24 – 0.26	0.24 – 0.27	0.44 – 0.50	66 – 69	NC
	SunDefense™ Low-E IG	0.23 – 0.26	0.18 – 0.20	0.41 – 0.46	66 – 69	NC, SC, S
	SunDefense+ Low-E IG	0.19 – 0.21	0.18 – 0.19	0.40 – 0.45	73 – 74	CA, N, NC, SC, S
	AdvancedComfort Low-E IG	0.20 – 0.21	0.20 – 0.26	0.43 – 0.49	74	CA, N, NC, SC, S
	NaturalSun LowE IG	0.24 – 0.26	0.43 – 0.50	0.50 – 0.56	66 – 68	CA, N
	NaturalSun+ LowE IG	0.20 – 0.22	0.39 – 0.45	0.48 – 0.55	73 – 74	CA, N, NC

Sound Performance	Frame Size Tested	Type of Glazing		STC	OITC
	Vent; 23" x 59"	11/16" Overall IG thickness with Hinged-Glass-Panel	2.5mm/2.5mm/2.5mm (ML)	31	25
Vent; 23" x 59"	5mm/3mm/4mm (ML)		36	31	
Vent, with Shade; 23" x 59"	5mm/3mm/4mm (ML)		37	34	
Vent, with Blind; 23" x 59"	5mm/3mm/4mm (ML)		36	32	
Fixed; 47" x 59"	11/16" Overall IG thickness with Hinged-Glass-Panel	5mm/3mm/4mm (ML)	35	30	
Fixed, with Shade; 47" x 59"		5mm/3mm/4mm (ML)	37	31	
Fixed, with Blind; 47" x 59"		5mm/3mm/4mm (ML)	35	30	
Fixed; 47" x 59"		3mm/3mm/3mm (ML)	33	27	
Fixed; 47" x 59"		4mm/6mm/4mm (ML)	35	29	
Fixed, with Shade; 47" x 59"		4mm/6mm/4mm (ML)	37	31	
Fixed, with Blind; 47" x 59"	4mm/6mm/4mm (ML)	36	30		

Code Approvals: Hallmark Certified; FPAS#: Vent=11865, Fixed=11877; TDI#: Vent=WIN-674, Fixed=WIN-619

## Dual-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	LC30 – LC50	4.59 – 7.52 psf	.05	30 – 50 psf	40

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
Vent Units 11/16" glass thickness, 2.5mm and 3mm, Dual-Pane	Advanced LowE IG	0.28 – 0.33	0.25 – 0.28	0.46 – 0.51	54 – 58	–
	SunDefense™ Low-E IG	0.28 – 0.32	0.19 – 0.21	0.43 – 0.48	54 – 59	SC, S
	SunDefense+ Low-E IG	0.25 – 0.28	0.18 – 0.20	0.42 – 0.47	41 – 47	NC, SC, S
	AdvancedComfort Low-E IG	0.25 – 0.28	0.25 – 0.27	0.45 – 0.50	42 – 46	NC
	NaturalSun LowE IG	0.29 – 0.34	0.46 – 0.51	0.52 – 0.58	54 – 58	–
	NaturalSun+ LowE IG	0.25 – 0.29	0.42 – 0.47	0.51 – 0.57	40 – 45	CA, N

Sound Performance	Frame Size Tested	Type of Glazing		STC	OITC
	Vent; 23" x 59"	11/16" Overall thickness	2.5mm / 2.5mm glass	25	22
Vent; 23" x 59"	5mm / 3mm glass		31	26	
Fixed; 47" x 59"	11/16" Overall thickness	3mm / 3mm glass	28	24	
Fixed; 47" x 59"		5mm / 3mm glass	30	26	

Code Approvals: Hallmark Certified; FPAS#: Vent = 20675, Fixed = 20653; TDI#: Vent = WIN-2174; Fixed = WIN-2173

See the Performance section earlier in this manual to learn more about performance standards and ratings.

Performance varies based on actual product attributes.



## Standard Sizes – Dual-Pane

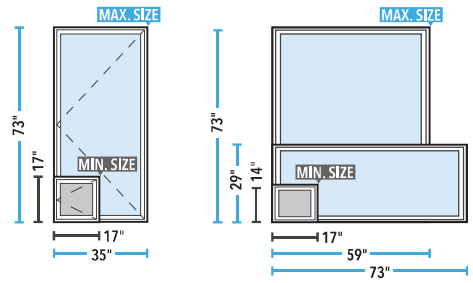
### Transoms

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
1' 2"	50 1714	50 2114	50 2314	50 2514	50 2914	50 3214	50 3514
(375) (356)	50 1717	50 2117	50 2317	50 2517	50 2917	50 3217	50 3517
(451) (432)	50 1721	50 2121	50 2321	50 2521	50 2921	50 3221	50 3521
(552) (533)	50 1723	50 2123	50 2323	50 2523	50 2923	50 3223	50 3523
(603) (584)	50 1725	50 2125	50 2325	50 2525	50 2925	50 3225	50 3525
(654) (635)	50 1729	50 2129	50 2329	50 2529	50 2929	50 3229	50 3529
(756) (737)							
2' 5 3/4"							
2' 8 3/4"							
2' 11 3/4"							
1' 5"							
1' 9"							
1' 11"							
2' 1"							
2' 5"							

### Vent Units

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
2' 8"	50 1732	50 2132	50 2332	50 2532	50 2932	50 3232	50 3532
(832) (813)	50 1735	50 2135	50 2335	50 2535	50 2935	50 3235	50 3535
(908) (889)	50 1741	50 2141	50 2341	50 2541	50 2941	50 3241	50 3541
(1060) (1041)	50 1747	50 2147	50 2347	50 2547	50 2947	50 3247	50 3547
(1213) (1194)	50 1753	50 2153	50 2353	50 2553	50 2953	50 3253	50 3553
(1365) (1346)	50 1759	50 2159	50 2359	50 2559	50 2959	50 3259	50 3559
(1518) (1499)	50 1765	45 50	45 50	45 50	45 50	45 50	45 50
(1670) (1651)	50 1771	45 50	40 50	40 50	30 50	30 50	30 50
(1822) (1803)	50 1773	40 50	35 50	35 50	30 50	30 50	30 50
(1873) (1854)							
6' 1 3/4"							
5' 5 3/4"							
5' 8 3/4"							
5' 11"							
2' 8"							
2' 11"							
3' 5"							
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5' 11"							

## Special Sizes – Dual-Pane



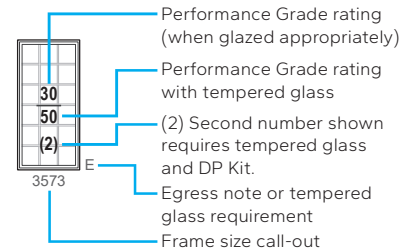
Special sizes are available in 1/4" increments. Frame width cannot exceed frame height on vent special sizes.

Certain aspect ratios may require tempered glass.

Additional standard fixed sizes available up to 59" wide.

Special size 14" tall units are available only up to 59" wide.

When frame width exceeds 59", max frame height is 29".



(2) Second number shown requires tempered glass and DP Kit.

ⓕ Fixed units only.

Ⓥ Fixed units typical, vent units available.

Ⓣ Tempered glass is required due to aspect ratio.

### Egress Notes:

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

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

E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 sq. ft.

E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 sq. ft.

Check all applicable local codes for emergency egress requirements.

Not to scale.

## Standard Sizes – Triple-Pane

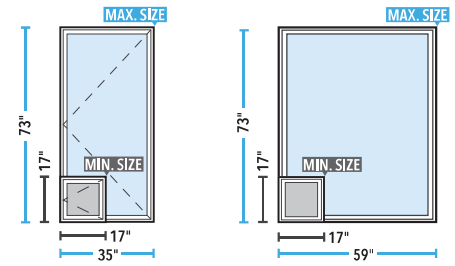
### Transoms

	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
1' 5"	50 1717	50 2117	50 2317	50 2517	50 2917	50 3217	50 3517
1' 9"	50 1721	50 2121	50 2321	50 2521	50 2921	50 3221	50 3521
1' 11"	50 1723	50 2123	50 2323	50 2523	50 2923	50 3223	50 3523
2' 1"	50 1725	50 2125	50 2325	50 2525	50 2925	50 3225	50 3525
2' 5"	50 1729	50 2129	50 2329	50 2529	50 2929	50 3229	50 3529

### Vent Units

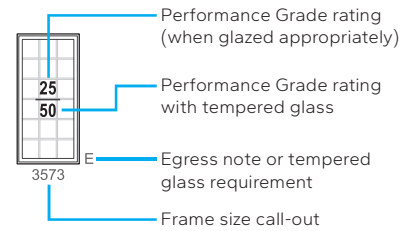
	(451) (432)	(552) (533)	(603) (584)	(654) (635)	(756) (737)	(832) (813)	(908) (889)
Opening	1' 5 3/4"	1' 9 3/4"	1' 11 3/4"	2' 1 3/4"	2' 5 3/4"	2' 8 3/4"	2' 11 3/4"
Frame	1' 5"	1' 9"	1' 11"	2' 1"	2' 5"	2' 8"	2' 11"
2' 8"	50 1732	50 2132	50 2332	50 2532	50 2932	50 3232	45 50 3532
2' 11"	50 1735	50 2135	50 2335	50 2535	50 2935	45 50 3235	40 50 3535
3' 5"	50 1741	45 50 2141	45 50 2341	45 50 2541	45 50 2941	40 50 3241	35 50 3541
3' 11"	50 1747	35 50 2147	35 50 2347	35 50 2547	35 50 2947	35 50 3247	30 50 3547
4' 5"	50 1753	35 50 2153	30 50 2353	30 50 2553	30 50 2953	30 50 3253	25 50 3553
4' 11"	50 1759	30 50 2159	25 50 2359	25 50 2559	25 50 2959	25 50 3259	25 50 3559
5' 5"	50 1765	25 50 2165	25 50 2365	20 50 2565	20 50 2965	30 50 3265	30 50 3565
5' 11"	50 1771	25 50 2171	20 50 2371	20 50 2571	25 50 2971	25 50 3271	25 50 3571
6' 1"	50 1773	25 50 2173	20 50 2373	20 50 2573	25 50 2973	25 50 3273	25 50 3573

## Special Sizes – Triple-Pane



Special sizes are available in 1/4" increments. Frame width cannot exceed frame height on vent special sizes.

Certain aspect ratios may require tempered glass.



- ⓕ Fixed units only.
- Ⓥ Vent units available
- Ⓣ Tempered glass is standard.

### Egress Notes:

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 sq. ft.
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 sq. ft.
- E2 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.7 sq. ft.
- E3 = With optional side pivot hardware, window meets minimum clear opening of 24" height, 20" width, and 5.0 sq. ft.

Check all applicable local codes for emergency egress requirements.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product.

Consult your local building code to ensure products with Rolcreens meet egress requirements.

Not to scale.





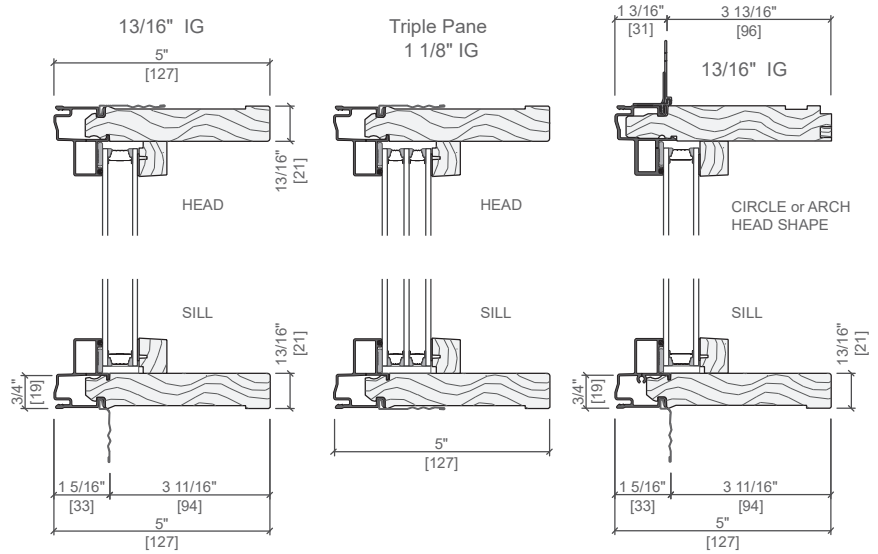
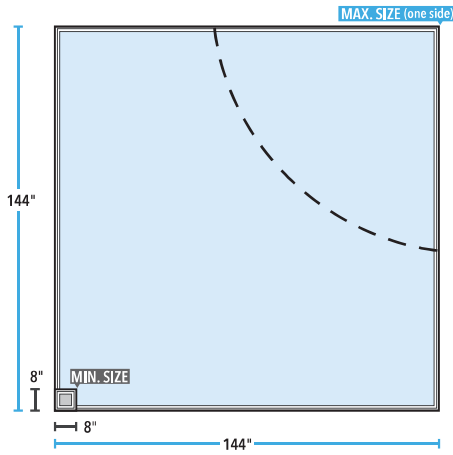
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Fixed  
Frame  
Direct Set



Sizes are available in 1/8" increments.

Fixed Interior Glazed



Interior Glazed Fixed Frames are available up to a maximum glass area of 76 sq. ft. (7.06 m<sup>2</sup>). Not all sizes are certified.

Impact Resistant Glazing is limited to a maximum frame area of 50 sq. ft.

Other frame types are available.

Not to scale. All dimensions are approximate.

## Sizes & Performance – Interior Glazed

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	F-CW30 – F-CW90	14.62 psf	0.05	30 – 90 psf	–

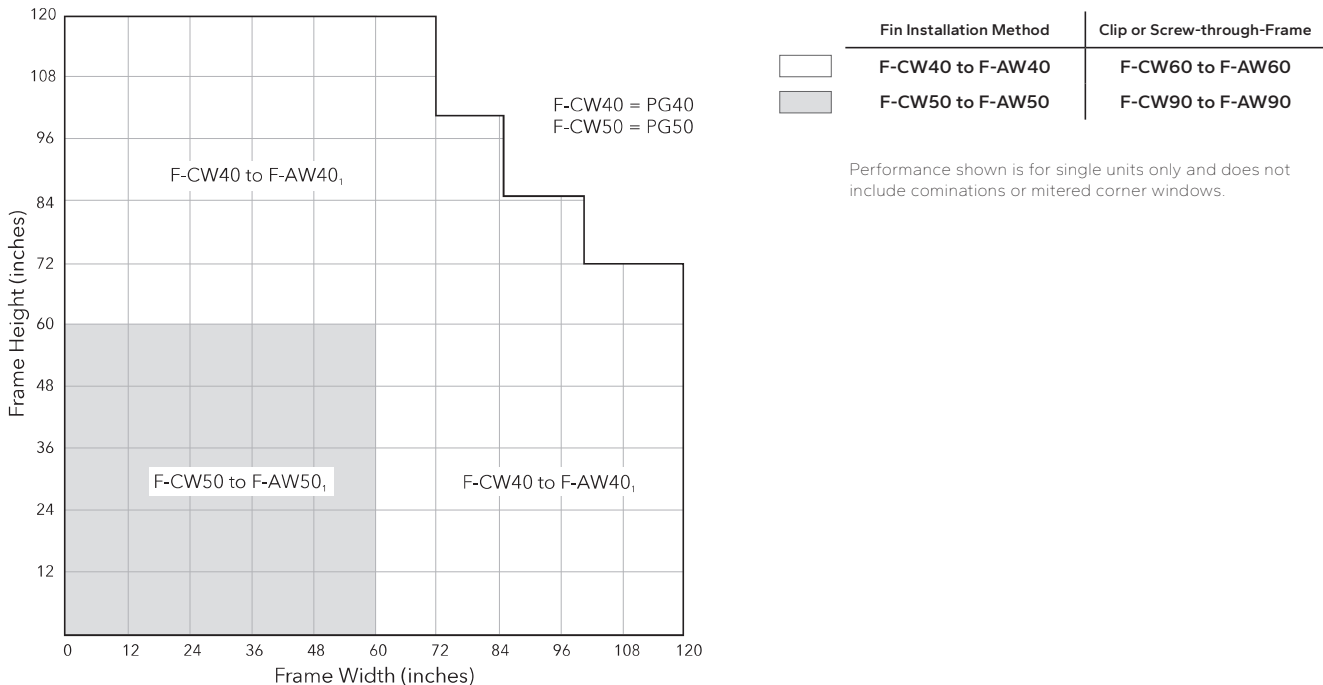
Thermal Performance Fixed Units	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
	Dual Pane: 13/16" glass thickness, 3mm, Dual-Pane	Advanced LowE IG	0.28 – 0.33	0.29 – 0.33	0.55 – 0.62	54 – 57
SunDefense™ Low-E IG		0.28 – 0.32	0.22 – 0.24	0.51 – 0.57	54 – 57	SC, S
SunDefense+ Low-E IG		0.23 – 0.32	0.21 – 0.24	0.50 – 0.57	46 – 54	NC, SC, S
AdvancedComfort Low-E IG		0.23 – 0.27	0.29 – 0.32	0.54 – 0.60	42 – 45	NC
NaturalSun Low-E IG		0.29 – 0.34	0.55 – 0.61	0.63 – 0.70	53 – 57	CA
NaturalSun+ Low-E IG		0.24 – 0.27	0.50 – 0.55	0.61 – 0.68	41 – 45	CA, N
Triple Pane: 1-1/8" glass thickness, 3mm	Advanced Low-E IG	0.18 – 0.22	0.27 – 0.30	0.49 – 0.54	65 – 69	CA, N, NC
	SunDefense Low-E IG	0.18 – 0.22	0.20 – 0.22	0.45 – 0.50	65 – 69	CA, N, NC, SC, S
	NaturalSun Low-E IG	0.18 – 0.22	0.45 – 0.49	0.55 – 0.61	65 – 68	CA, N

Sound Performance	Frame Size Tested	Type of Glazing	Without Grilles	
			STC	OITC
47" x 59"	13/16" Overall Thickness Dual-Pane	3mm / 3mm	27	22
		4mm / 4mm	28	24
		5mm / 3mm	31	26
	1" Overall Thickness Dual-Pane	4mm / 6mm	34	28
		6mm / 6mm	31	26
	1" Overall Thickness Dual-Pane Sound Reduction Glass	4mm / 7mm PVB	34	29
	1-1/4" Overall Thickness Dual-Pane Sound Reduction Glass	6mm / 12mm PVB	38	34
	1" Overall Thickness Dual-Pane Impact Laminated Glass	11.7mm PVB / 5mm glass	36	32
		11.7mm SGP / 5mm glass	35	31
	1-1/4" Overall Thickness Dual-Pane Impact Laminated Glass	13.6mm SPG / 6mm glass	37	31
1-3/8" Overall Thickness Triple-Pane Glazing	5mm / 5mm / 5mm	31	26	

### Code Approvals:

Interior Glazed - Hallmark Certified, **FPAS#:** Standard = FL 10354; Impact Resistant = FL 20349 **TDI#:** Standard = WIN-1574; Impact Resistant = WIN-478

See the Performance section earlier in this manual to learn more about performance standards and ratings.



Maximum performance when glazed with the appropriate glass thickness.

Keep special size frame dimensions to the nearest 1/8" increment.

(1) AAMA / WDMA F-AW rating can be obtained with the EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step finish.





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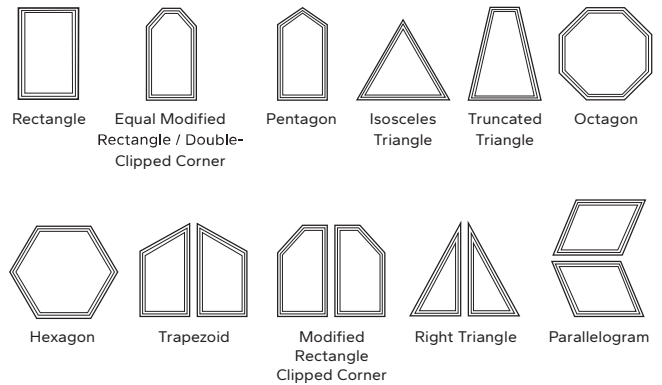
Fixed  
Frame  
Direct Set  
Shapes



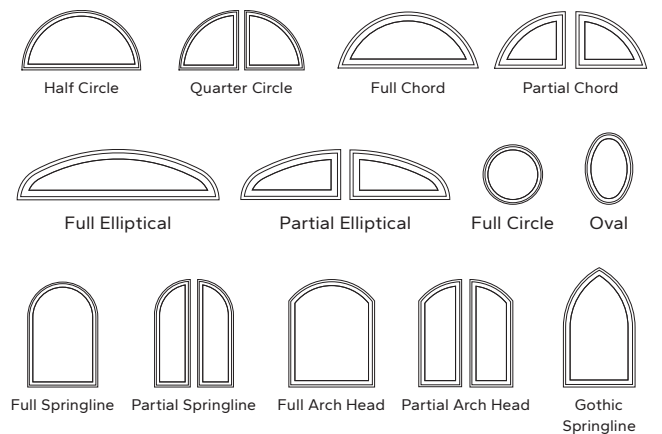
Shapes and Sizes – Interior Glazed

Description	Width		Height		Max. Glass Ft <sup>2</sup>
	Min.	Max.	Min.	Max.	
Rectangle	8"	144"	8"	144"	76
Half Circle	24"	120"	12"	60"	48
Quarter Circle	12"	85"	12"	85"	48
Full Springline	24"	108"	R + 4.25"	120"	48
Half Springline	12"	85"	R + 4.25"	120"	48
Full Chord	24"	120"	10.5"	(W/2) - 1"	48
Partial Chord	9"	120"	10.5"	85.125"	48
Full Elliptical	32.5"	120"	R1 + 1.25"	< W/2	48
Partial Elliptical	14"	120"	R1 + 1.25"	60"	48
Full Arch Head	9"	120"	9"	120"	48
Partial Arch Head	9"	120"	9"	120"	48
Gothic Springline	9"	108"	14"	120"	48
Full Circle	24"	72"	24"	72"	—
Oval	Standard sizes only. 24" W x 36" H, 30" W x 48" H or 36" W x 60" H				

Rectangular and Angled Shapes



Curved Shapes



H=Height; S=Short Side; R=Radius, Angled and Curved frames are measured as a rectangle.

Pella angled and rectangular fixed frame direct set windows are available in custom shapes above. Not all options are shown. These windows may be installed in any orientation. For specifications, size limitations, and details on these units, contact your local Pella sales representative.





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Double-  
Hung



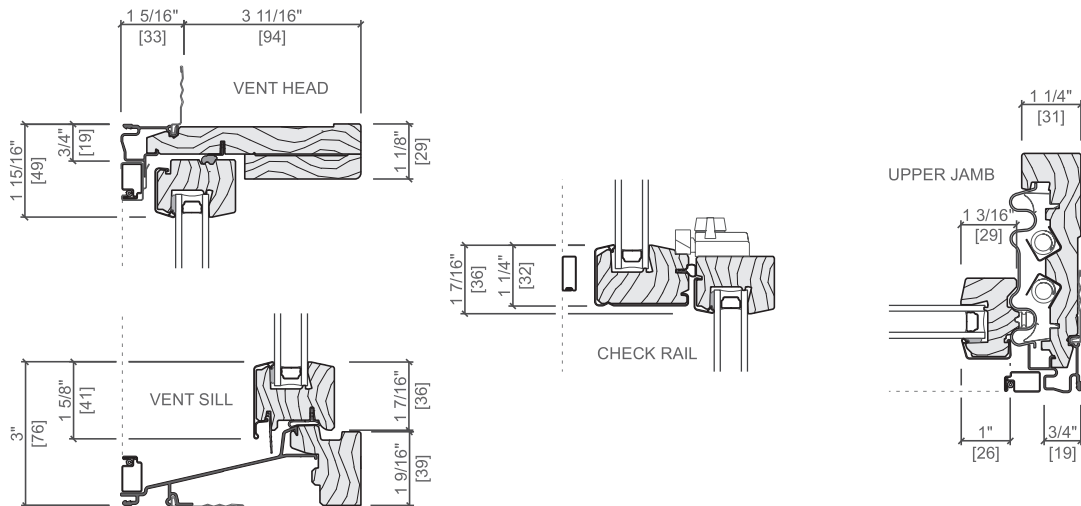
Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration <sub>1</sub>	Design Pressure	Forced Entry
	LC30 – LC50	7.5 psf	0.11	30 – 50 psf	10

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
Vent Units 1 1/16" glass thickness, 2.5mm and 3mm	Advanced LowE IG	0.30 – 0.33	0.27 – 0.30	0.50 – 0.56	53 – 57	–
	SunDefense™ Low-E IG	0.29 – 0.33	0.20 – 0.22	0.46 – 0.52	53 – 58	S
	SunDefense+ Low-E IG	0.25 – 0.28	0.20 – 0.22	0.45 – 0.51	41 – 46	NC, SC, S
	AdvancedComfort Low-E IG	0.26 – 0.28	0.26 – 0.29	0.48 – 0.55	41 – 46	–
	NaturalSun LowE IG	0.30 – 0.34	0.49 – 0.56	0.56 – 0.64	52 – 57	CA
	NaturalSun+ Low-E IG	0.26 – 0.29	0.44 – 0.51	0.55 – 0.62	41 – 45	CA, N

Sound Performance	Frame Size Tested	Type of Glazing		STC	OITC
	Vent; 37" x 59"	11/16" Overall IG thickness	2.5mm/2.5mm	27	23
	Vent; 37" x 59"		5mm/3mm	31	27

Code Approvals: Hallmark Certified, FPAS#: Vent=12448, TDI#: Vent=WIN-739

See the Performance section earlier in this manual to learn more about performance standards and ratings. Performance varies based on actual product attributes.



Other frame types are available. Not to scale. All dimensions are approximate.

# Standard Sizes – Dual-Pane

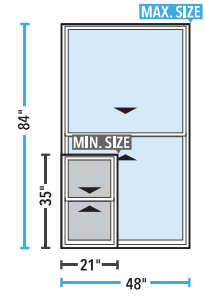
## Vent Units

	(552) (533)	(654) (635)	(755) (737)	(857) (838)	(959) (940)	(1 060) (1 041)	(1 162) (1 143)	(1 238) (1 219)
Opening	1' 9 3/4"	2' 1 3/4"	2' 5 3/4"	2' 9 3/4"	3' 1 3/4"	3' 5 3/4"	3' 9 3/4"	4' 0 3/4"
Frame	1' 9"	2' 1"	2' 5"	2' 9"	3' 1"	3' 5"	3' 9"	4' 0"
(908) (888)	50 2135	50 2535	50 2935	50 3335	35 50 3735	30 4135	30 4535	25 4835
(1 060) (1 041)	50 2141	50 2541	50 2941	50 3341	35 50 3741	30 4141	30 4541	25 4841
(1 213) (1 194)	50 2147	50 2547	50 2947	50 3347	35 50 3747	30 4147	30 4547	25 4847
(1 365) (1 346)	50 2153	50 2553	50 2953	40 50 3353	35 50 3753	30 4153	30 4553	25 4853
(1 467) (1 448)	40 50 2157	40 50 2557	40 50 2957	40 50 3357 E1	35 50 3757 E	30 4157 E	30 4557 E	25 4857 E
(1 517) (1 499)	40 50 2159	40 50 2559	40 50 2959	40 50 3359 E1	35 50 3759 E	30 4159 E	30 4559 E	25 4859 E
(1 670) (1 651)	40 50 2165	40 50 2565	40 50 2965 E1	35 50 3365 E	35 50 3765 E	30 4165 E	30 4565 E	25 4865 E
(1 822) (1 803)	30 50 2171	30 50 2571	30 50 2971 E	30 50 3371 E	30 50 3771 E	30 4171 E	30 4571 E	25 4871 E
(1 975) (1 956)	30 2177	30 2577 E1	30 2977 E	30 3377 E	30 3777 E	30 4177 E	30 4577 E	25 4877 E
(2 153) (2 134)	25 2184	25 2584 E	25 2984 E	25 3384 E	25 3784 E	25 4184 E	25 4584 E	25 4884 E

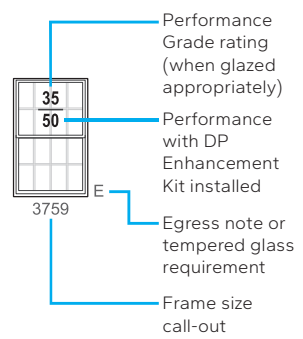
# Special Sizes – Dual-Pane

Special Sizes are available in 1/4" increments.

## Vent-Equal



Transoms and Companion fixed windows available for combinations. See Casement window section for matching glass sightlines, or see the Fixed Frame Direct Set section for availability.



- Egress Notes:**
- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 sq. ft.
  - E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 sq. ft.

Check all applicable local codes for emergency egress requirements.

Maximum performance when glazed with the appropriate glass thickness.

Special size units are available in 1/4" increments.

Pella® Lifestyle Series Double-Hung



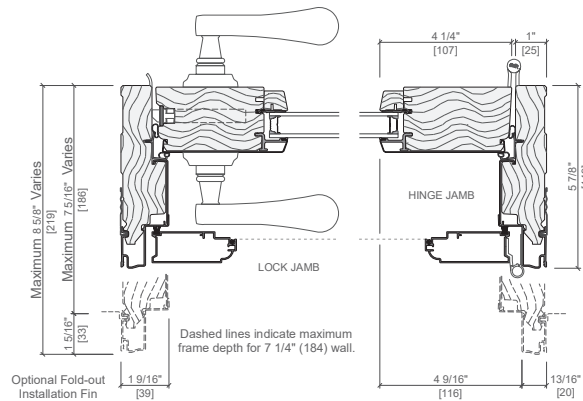
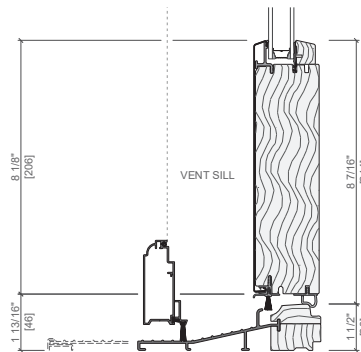
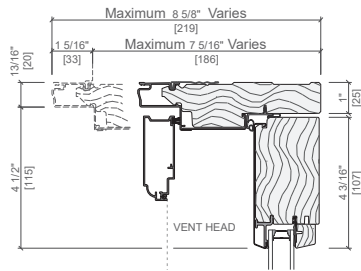


Pella®  
Lifestyle  
Series

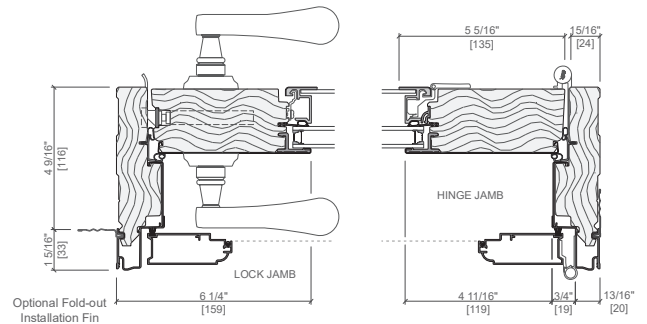
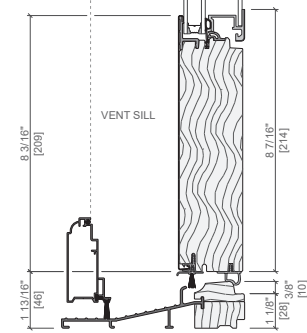
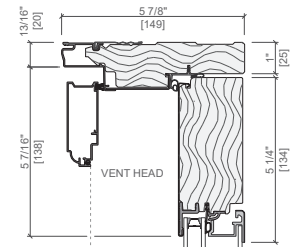
In-Swing  
Door



### Dual-Pane



### Triple-Pane



Other frame types are available.  
Not to scale. All dimensions are approximate.

## Triple-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	LC55	8.36 psf	0.10	55 psf	Complies with AAMA 1304

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
<b>French Doors</b> 11/16" glass glass thickness, 3mm and 4mm, with clear ML (Triple-Pane)	Advanced LowE IG	0.25 – 0.28	0.16 – 0.19	0.28 – 0.34	65 – 66	N, NC, SC, S
	SunDefense™ Low-E IG	0.25 – 0.28	0.12 – 0.14	0.26 – 0.31	65 – 66	N, NC, SC, S
	SunDefense+ Low-E IG	–	–	–	–	PENDING
	AdvancedComfort Low-E IG	0.23 – 0.25	0.15 – 0.18	0.27 – 0.33	65 – 66	N, NC, SC, S
	NaturalSun LowE IG	0.25 – 0.28	0.28 – 0.34	0.32 – 0.38	65 – 66	N, NC
	NaturalSun+ LowE IG	–	–	–	–	PENDING

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC	
	Active-Inactive; 71-1/4" x 81-1/4" A/I, w/ Blind, 71-1/4" x 81-1/4" A/I, w/ Shade, 71-1/4" x 81-1/4"	11/16" Overall IG thickness with Hinged-Glass-Panel	3mm/3mm/3mm (ML)	34	28
			5mm/3mm/4mm (ML)	35	31
			5mm/3mm/4mm (ML)	35	31
			5mm/3mm/4mm (ML)	35	31

Code Approvals: Hallmark Certified; **FPAS#**: Fixed and Vent = 16246; **TDI#**: Fixed and Vent = DR-218

## Dual-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	LC50	7.5 psf	0.15	50 psf	Complies with AAMA 1304

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
<b>Vent Units</b> 13/16" glass thickness, 3mm, Dual-Pane	Advanced LowE IG	0.28 – 0.30	0.19 – 0.22	0.35 – 0.41	58 – 62	SC, S
	SunDefense™ Low-E IG	0.28 – 0.30	0.14 – 0.17	0.32 – 0.38	59 – 62	SC, S
	SunDefense+ Low-E IG	0.24 – 0.26	0.14 – 0.16	0.32 – 0.37	46 – 49	N, NC, SC, S
	AdvancedComfort Low-E IG	0.25 – 0.26	0.19 – 0.22	0.34 – 0.40	45 – 49	N, NC, SC, S
	NaturalSun LowE IG	0.29 – 0.31	0.35 – 0.41	0.40 – 0.46	58 – 61	–
	NaturalSun+ LowE IG	0.25 – 0.27	0.32 – 0.37	0.39 – 0.45	45 – 48	N, NC

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC	
	Active-Fixed; 71-1/4" x 81-1/4"	13/16" Overall IG thickness	3mm / 3mm	30	24
			5mm / 3mm	32	28

Code Approvals: Hallmark Certified; **FPAS#**: FL 10346

See the Performance section earlier in this manual to learn more about performance standards and ratings.

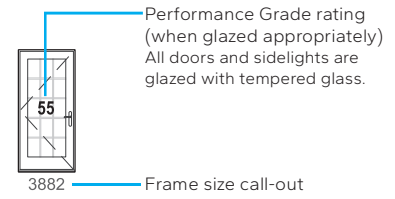
Performance varies based on actual product attributes.



# Standard Sizes – Dual-Pane

## 6' 7" Single Doors

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



## 6' 10" Single Door

FIXED VENT		(2 083) (2 070)	(2 083) (2 070)	(2 083) (2 070)	(2 083) (2 070)
Opening		6' 10"	6' 9 1/2"		
Frame					
(2 083) (2 070)	6' 10"				
	6' 9 1/2"				

## 8' 0" Single Door

FIXED VENT		(2 438) (2 426)	(2 438) (2 426)	(2 438) (2 426)	(2 438) (2 426)
Opening		8' 0"	7' 11 1/2"		
Frame					
(2 438) (2 426)	8' 0"				
	7' 11 1/2"				

## 6' 7" Double-Swing Doors

ACTIVE-INACTIVE		(1 524) (1 505)	(1 702) (1 682)	(1 829) (1 810)	(1 924) (1 905)
Opening		5' 0"	5' 7"	6' 0"	6' 3 3/4"
Frame		4' 11 1/4"	5' 6 1/4"	5' 11 1/4"	6' 3"
(2 032) (2 019)	6' 8"				
	6' 7 1/2"				

## 6' 10" Double-Swing Doors

ACTIVE-INACTIVE		(2 083) (2 070)	(2 083) (2 070)	(2 083) (2 070)	(2 083) (2 070)
Opening		6' 10"	6' 9 1/2"		
Frame					
(2 083) (2 070)	6' 10"				
	6' 9 1/2"				

## 8' 0" Double-Swing Doors

ACTIVE-INACTIVE		(2 438) (2 426)	(2 438) (2 426)	(2 438) (2 426)	(2 438) (2 426)
Opening		8' 0"	7' 11 1/2"		
Frame					
(2 438) (2 426)	8' 0"				
	7' 11 1/2"				

Not to scale.

## Standard Sizes – Triple-Pane

### 6' 7" Single Doors and Sidelight

FIXED VENT

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

### 6' 10" Single Door

FIXED VENT

(2 083) (2 070)	6' 10"	6' 9 <sup>1</sup> / <sub>2</sub> "			
	1882	3082	3482	3682	3882

### 8' 0" Single Door

FIXED VENT

(2 438) (2 426)	8' 0"	7' 11 <sup>1</sup> / <sub>2</sub> "			
	1896	3096	3496	3696	3896

### 6' 7" Double-Swing Doors

ACTIVE-INACTIVE

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

### 6' 10" Double-Swing Doors

ACTIVE-INACTIVE

(2 083) (2 070)	6' 10"	6' 9 <sup>1</sup> / <sub>2</sub> "		
	6082	6782	7282	7582

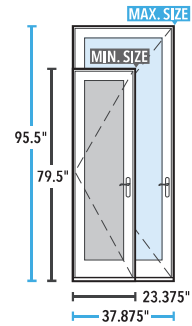
### 8' 0" Double-Swing Doors

ACTIVE-INACTIVE

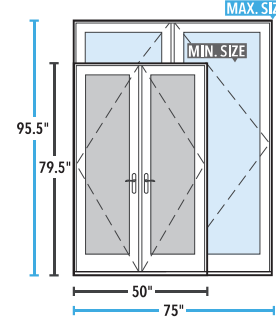
(2 438) (2 426)	8' 0"	7' 11 <sup>1</sup> / <sub>2</sub> "		
	6096	6796	7296	7596

## Special Sizes – Triple-Pane

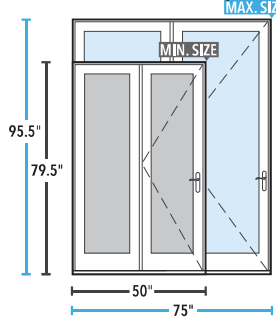
### Single Door



### Double-Door (AI/IA)

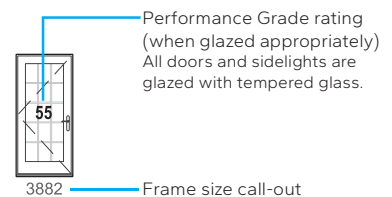


### Double-Door (AF/FA)



Keep frame dimensions to the nearest 1/4" increment.

All doors are glazed with tempered glass.



Not to scale.





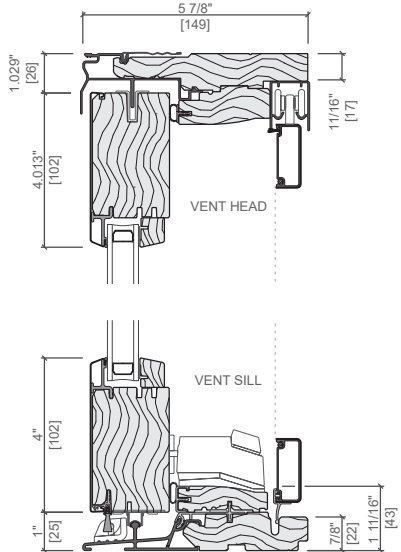
Pella®  
Lifestyle  
Series

Sliding  
Door

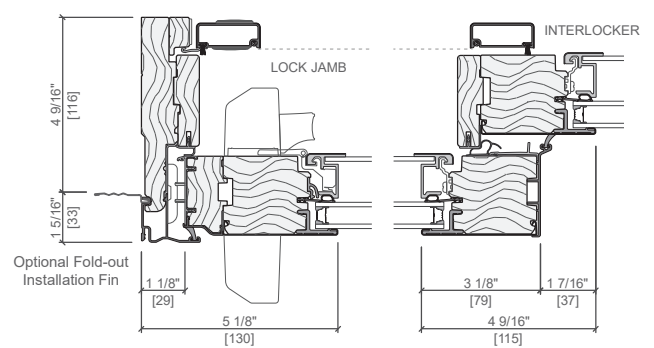
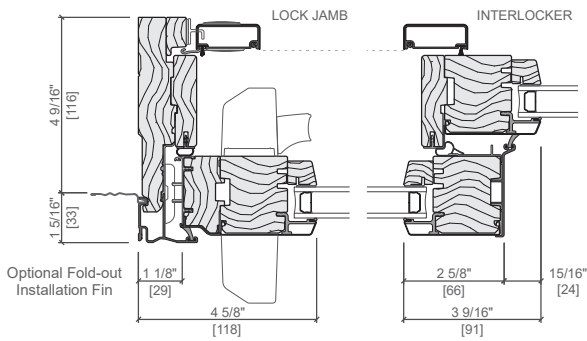
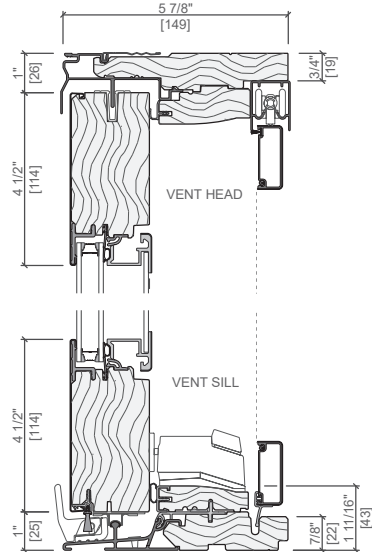
Doors are Pella Lifestyle triple pane product. Windows are dual pane Impervia picture/ fixed windows.



Dual-Pane  
Model 4



Triple-Pane



Three panel (OXO) and four panel (OXXO) configurations are also available.

## Triple-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	SD-R25 – CW60	3.76 – 9.2 psf	0.10	25 – 60 psf	40

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
<b>French Doors</b> 11/16" glass thickness, 3mm and 4mm, with clear ML (Triple-Pane)	Advanced LowE IG	0.26 – 0.29	0.18 – 0.21	0.33 – 0.39	63 – 64	N, NC, SC, S
	SunDefense™ Low-E IG	0.25 – 0.29	0.14 – 0.16	0.30 – 0.36	63 – 64	N, NC, SC, S
	SunDefense+ Low-E IG	–	–	–	–	PENDING
	AdvancedComfort Low-E IG	0.24 – 0.26	0.18 – 0.21	0.32 – 0.38	63 – 64	N, NC, SC, S
	NaturalSun LowE IG	0.26 – 0.29	0.32 – 0.39	0.37 – 0.44	62 – 64	N, NC
	NaturalSun+ LowE IG	–	–	–	–	PENDING

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC	
	OX; 71-1/4" x 81-1/2" Contemporary	3mm/3mm/3mm (ML)	33	27	
		5mm/3mm/4mm (ML)	35	30	
		5mm/3mm/4mm (ML)	35	30	
		5mm/3mm/4mm (ML)	36	30	
	OX; 71-1/4" x 81-1/2" Contemporary; with Blind	11/16" Overall IG thickness with Hinged-Glass-Panel	3mm/3mm/3mm (ML)	33	28
			5mm/3mm/4mm (ML)	35	31
			5mm/3mm/4mm (ML)	35	30
			5mm/3mm/4mm (ML)	35	30
			5mm/3mm/4mm (ML)	35	32
			5mm/3mm/4mm (ML)	35	32

Code Approvals: Hallmark Certified; FPAS#: FL 12442

## Dual-Pane Glazing

Air, Water, & Structural Performance	Performance Class & Grade Rating	Water Penetration Resistance	Air Infiltration	Design Pressure	Forced Entry
	SD-R20 – LC50	3.1 – 7.5 psf	0.10	20 – 50 psf	10

Thermal Performance	Type of Glazing (Argon fill)	U-Factor	SHGC	VLT %	CR	Energy Star® Capable
<b>Vent Units</b> Model 4 13/16" glass thickness, 3mm, and 4mm, Dual-Pane	Advanced LowE IG	0.28 – 0.32	0.24 – 0.28	0.45 – 0.52	53 – 57	–
	SunDefense™ Low-E IG	0.28 – 0.32	0.18 – 0.21	0.42 – 0.48	53 – 58	SC, S
	SunDefense+ Low-E IG	0.24 – 0.26	0.18 – 0.20	0.41 – 0.47	43 – 47	N, NC, SC, S
	AdvancedComfort Low-E IG	0.24 – 0.28	0.24 – 0.27	0.44 – 0.51	42 – 46	N, NC
	NaturalSun LowE IG	0.29 – 0.33	0.44 – 0.51	0.51 – 0.59	53 – 57	–
	NaturalSun+ LowE IG	0.25 – 0.28	0.40 – 0.47	0.50 – 0.57	42 – 46	CA, N

Sound Performance	Frame Size Tested	Type of Glazing	STC	OITC	
	Model 4, Vent-Fixed; 71-1/4" x 81-1/2"	13/16" Overall IG thickness	3mm / 3mm	29	23
			5mm / 3mm	32	26

Code Approvals: Hallmark Certified; FPAS#: Model 3=11469, Model 4=20123; TDI#: Model 3=DR-202, Model 4=DR-809

See the Performance section earlier in this manual to learn more about performance standards and ratings.

Performance varies based on actual product attributes.



# Standard Sizes – Dual-Pane

## Model 4

### 6' 8" Two-Panel Fixed-Vent

Opening	5' 0" (1 524)	6' 0" (1 829)	7' 0" (2 134)	8' 0" (2 438)
Frame	4' 11 1/4" (1 505)	5' 11 1/4" (1 810)	6' 11 1/4" (2 115)	7' 11 1/4" (2 419)

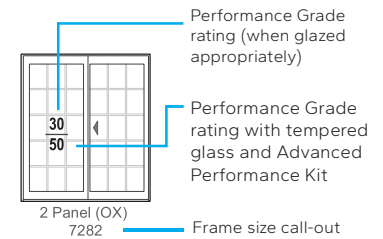
6' 8" (2 032)				
6' 7 1/2" (2 019)				

### 6' 10" Two-Panel Fixed-Vent

6' 10" (2 083)				
6' 9 1/2" (2 070)				

### 8' 0" Two-Panel Fixed-Vent

8' 0" (2 438)				
7' 11 1/2" (2 426)				



### Transoms

	(800) (781)	(953) (933)	(1 105) (1 086)	(1 257) (1 238)	(1 524) (1 505)	(1 829) (1 810)	(2 134) (2 115)	(2 438) (2 419)
Opening	2' 7 1/2"	3' 1 1/2"	3' 7 1/2"	4' 1 1/2"	5' 0"	6' 0"	7' 0"	8' 0"
Frame	2' 6 3/4"	3' 0 3/4"	3' 6 3/4"	4' 0 3/4"	4' 11 1/4"	5' 11 1/4"	6' 11 1/4"	7' 11 1/4"
2' 1 3/4" (654) 2' 1" (635)								
2' 1 3/4" (654) 2' 1" (635)								
1' 5" (451) 1' 2" (356)								

Not to scale. Ratings based on Direct Set transom.

Tempered glass is standard.

Not to scale.

All doors are glazed with tempered glass.

## Standard Sizes – Triple-Pane

### 6' 8" Two-Panel Fixed-Vent

Opening	5' 0" (1 524)	6' 0" (1 829)	7' 0" (2 134)	8' 0" (2 438)
Frame	4' 11 1/4" (1 505)	5' 11 1/4" (1 810)	6' 11 1/4" (2 115)	7' 11 1/4" (2 419)

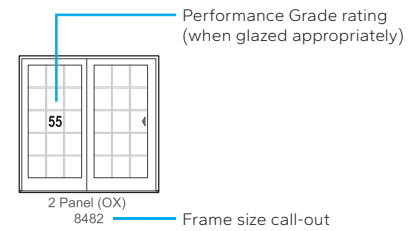
6' 8" (2 032)	6' 7 1/2" (2 019)				
		2 Panel (OX) 6080	2 Panel (OX) 7280	2 Panel (OX) 8480	2 Panel (OX) 9680

### 6' 10" Two-Panel Fixed-Vent

6' 10" (2 083)	6' 9 1/2" (2 070)				
		2 Panel (OX) 6082	2 Panel (OX) 7282	2 Panel (OX) 8482	2 Panel (OX) 9682

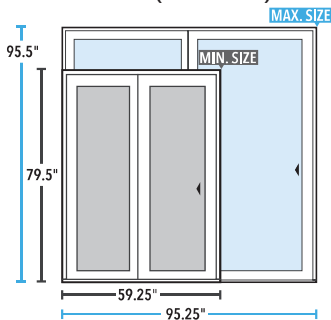
### 8' 0" Two-Panel Fixed-Vent

8' 0" (2 438)	7' 11 1/2" (2 426)				
		2 Panel (OX) 6096	2 Panel (OX) 7296	2 Panel (OX) 8496	2 Panel (OX) 9696

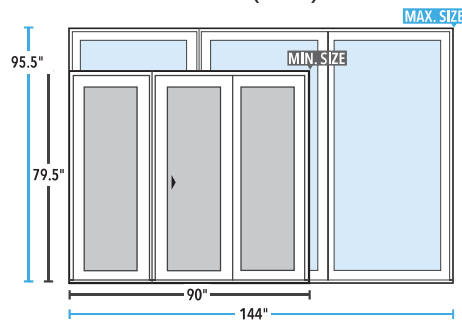


## Special Sizes – Model 4

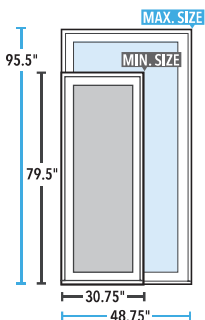
### Vent (OX or XO)



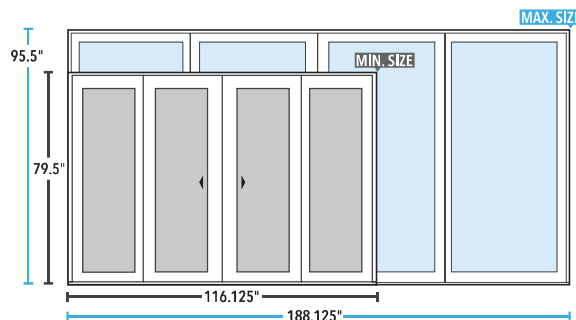
### Vent (OXO)



### Fixed (O)



### Vent (OXXO)



Keep frame dimensions to the nearest 1/4" increment.

All doors are glazed with tempered glass.







# Historic District Commission Staff Report

City of Kalamazoo

**TO:** The Kalamazoo Historic District Commission  
**FROM:** Luis Pena, Historic Preservation Coordinator  
**DATE:** 17 June 2025  
**SUBJECT:** Historic Preservation Coordinator's Report

## Historic District Reviews

Review Type	Cost	Number of Reviews	Totals
Administrative	\$35	48	\$1680
Hearing	\$85	12	\$1020
		60	\$2700

### Administrative Reviews:

203 W Vine	Re-roof
316 Elm St	Re-roof and removal of severely deteriorated chimney
620 Minor	Rebuild rear deck
1313 Merrill	Rebuild front stairs
628 S Rose	Side door replacement
1219 Grand	Rear fence installation
729 W South	Re-roof
1509 Academy	Re-roof
514 Dutton	Re-roof
503 S Westnedge	Side porch rebuild