

CITY OF VISALIA
HISTORIC PRESERVATION ADVISORY COMMITTEE
Wednesday, May 10, 2023, at 5:30PM

CHAIR: Walter Deissler VICE-CHAIR: Tyler Davis

COMMITTEE MEMBERS:

Patty Kane, Michael Kreps, Jay Hohlbauch, Jordan Mulrooney, Karen Ayala

City of Visalia Administration Building
220 North Santa Fe Street, Visalia CA

AGENDA

A. Citizen's Comments

B. Meeting Minutes

1. April 22, 2023, Special Called Meeting
2. April 26, 2023, Regular Meeting

C. Project Reviews

1. **HPAC No. 2023-08 (Continued Hearing):** A request by Zahir Ahmad to perform exterior alterations on a duplex within the R-1-5 (Single Family Residential, 5,000 sq. ft. minimum lot size) Zone. The project site is located at 434 and 436 South Garden Street (APN: 097-063-001).
2. **HPAC No. 2023-10:** A request by Erik van der Vis to remove and replace forty-six single pane wood windows with dual pane aluminum clad windows, for an office within the D-MU (Downtown Mixed Use) Zone. The project site is located at 403 North Floral Street (APN: 094-341-005).

D. Discussion Items

1. Historic District Survey Project
2. Committee and Staff Comments
 - a. Project Updates
3. Identification of Items for Future Agendas

E. Adjournment

12+11+In compliance with the Americans Disabilities Act, if you need special assistance to participate in meetings call (559) 713-4443 (Staff Representative) 48-hours in advance of the meeting. For Hearing Impaired – Call (559) 713-4900 (TTY) 48-hours in advance of the scheduled meeting time to request signing services. Visually Impaired - If enlarged print or a Braille copy is desired, please request in advance of the meeting and services will be provided as possible after the meeting. City Staff to the Committee is Cristobal Carrillo, Associate Planner, 559-713-4443, cristobal.carrillo@visalia.city.

Este Aviso es para informarle que habra una audiencia para el público ante el Comité de Preservación Histórica de la Ciudad de Visalia. Para más información, o para dar comentario público respecto a esta solicitud, por favor llame Cristobal Carrillo, Associate Planner, al numero (559) 713-4443 o cristobal.carrillo@visalia.city. Additional information about the Historic Preservation Advisory Committee may be found by contacting Cristobal Carrillo, Associate Planner at 559-713-4443, or emailing cristobal.carrillo@visalia.city.



MEETING MINUTES – APRIL 22, 2023

CITY OF VISALIA

HISTORIC PRESERVATION ADVISORY COMMITTEE

Special Called Meeting
Saturday, April 22, 2023, at 8:00AM

CHAIR: Walter Deissler

VICE-CHAIR: Tyler Davis

Kreps and Hohlbauch
absent. All other
members present at
8:00am.

COMMITTEE MEMBERS:

Patty Kane, Michael Kreps, Jay Hohlbauch, Jordan Mulrooney, Karen Ayala

MEMBERS OF THE PUBLIC: Victoria Ramirez, Jerome Melger, Evan Kurtz, Steve Brandt, Trevin Brandt, Kelsey Shepherd, Armando Murrieta, Andy Chamberlain, Marla Prochnow

CITY STAFF: Cristobal Carrillo, Associate Planner

**City of Visalia Community Development Building
315 E. Acequia Avenue, Visalia CA**

AGENDA

A. Citizen's Comments

None.

B. Discussion

1. Historic District Survey Project

a. Introduction and Assignments (8:00AM)

Staff assigned the HPAC and volunteers areas to survey. Discussion followed. As HPAC member and volunteers left to survey areas, staff stayed at the meeting place to attend to individuals arriving to the public meeting.

b. Survey of Sites (9:00AM)

HPAC members and volunteers conducted surveys of the Historic District and surrounding areas.

c. Lunch (12:00PM)

HPAC members, staff, and volunteers reconvened to eat lunch and discuss issues that occurred during survey activities.

d. Survey of Sites (1:00PM)

HPAC members and volunteers left to continue surveying sites. At this time a number of volunteers and HPAC members Ayala and Mulrooney left the meeting.

e. Reconvene and Debrief (4:00PM)

The remaining HPAC members (Deissler, Kane, and Davis), staff, and several volunteers reconvened to discuss survey activities.

C. Adjournment

A motion was made by Davis, seconded by Kane, to adjourn the meeting. All three remaining members present (Deissler, Kane, and Davis) voted in favor of the motion 3-0 (Kreps, Hohlbauch, Mulrooney, and Ayala absent). The action was taken without a quorum of the HPAC, which requires atleast four members present. The meeting adjourned at 4:03 p.m.

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Additional information about the Historic found by contacting Cristobal Carrillo, emailing cristobal.carrillo@visalia.city.



Preservation Advisory Committee may be Associate Planner at 559-713-4443, or

MEETING MINUTES – APRIL 26, 2023

CITY OF VISALIA

HISTORIC PRESERVATION ADVISORY COMMITTEE

Wednesday April 26, 2023, at 5:30PM

CHAIR: Walter Deissler

VICE-CHAIR: Tyler Davis

**Kreps absent. All other
members present.**

COMMITTEE MEMBERS:

Patty Kane, Michael Kreps, Jay Hohlbauch, Jordan Mulrooney, Karen Ayala

MEMBERS OF THE PUBLIC: None.

CITY STAFF: Cristobal Carrillo, Associate Planner

**City of Visalia Administration Building
220 North Santa Fe Street, Visalia CA**

AGENDA

A. Citizen's Comments

None.

B. Meeting Minutes

1. April 13, 2023, Regular Meeting

A motion was made by Kane, seconded by Ayala, to approve the meeting minutes for April 13, 2023. The motion was approved 6-0 (Kreps absent).

2. April 19, 2023, Special Called Meeting

A motion was made by Mulrooney, seconded by Kane, to approve the meeting minutes for April 19, 2023. The motion was approved 6-0 (Kreps absent).

C. Discussion Items

1. Historic District Survey Project

Staff and the Committee discussed the April 22, 2023, Survey Day. Staff shared that Community Development Director Paul Bernal stated that sufficient resources were not available for the HPAC to hold another Survey Day. It was recommended that additional surveys be conducted by individuals in their own time.

The HPAC then motioned to complete survey activities on an individual basis, with Committee members and volunteers reporting back to the HPAC by May 24, 2023. The motion was made by Kane, seconded by Davis, and was approved by a 6-0 vote (Kreps absent).

The HPAC directed staff to contact volunteers and invite them to visit staff to obtain survey materials to complete on their own. Staff was also directed to consult with the City Attorney over whether any future survey days would require noticing as a public

meeting. Lastly staff was requested to send the photo upload link to the HPAC and volunteers.

2. Letters of Recognition

The Committee discussed the creation of letters of recognition for owners of properties that have been well maintained. After discussion it was agreed that the HPAC should take up the matter after completion of the Historic District Survey Project.

3. Committee and Staff Comments

a. Project Updates

Staff provided updates on various projects throughout the Historic District and Local Register. This included a discussion of the continued hearing date for HPAC No. 2023-08 (434 and 436 South Garden Street). Staff stated that per the wishes of the applicant Zahir Ahmad and the direction of Community Development Director Paul Bernal, the continued item would be discussed at the May 10, 2023, HPAC meeting, and not the May 24, 2023.

4. Identification of Items for Future Agendas

None.

D. Adjournment

A motion was made by Davis, seconded by Kane, to adjourn the meeting. The motion passed 6-0 (Kreps absent). The meeting adjourned at approximately 6:54 p.m.

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REPORT TO THE CITY OF VISALIA HISTORIC PRESERVATION ADVISORY COMMITTEE

HEARING DATE: May 10, 2023

PROJECT PLANNER: Cristobal Carrillo, Associate Planner
Phone: (559) 713-4443
E-mail: cristobal.carrillo@visalia.city

SUBJECT: Continued Hearing for Historic Preservation Advisory Committee Item No. 2023-08: A request by Zahir Ahmad to perform exterior alterations on a duplex within the R-1-5 (Single Family Residential, 5,000 sq. ft. minimum lot size) Zone. The project site is located at 434 and 436 South Garden Street (APN: 097-063-001).

STAFF RECOMMENDATION

Staff recommends that the Historic Preservation Advisory Committee (HPAC) approve the exterior alterations as conditioned.

CONTINUED PUBLIC HEARING FROM APRIL 13, 2023

The HPAC conducted a public hearing on April 13, 2023, for HPAC No. 2023-08, and continued

the item to the May 24, 2023 meeting to provide the applicant with time to provide additional information. At the request of the applicant, the item was brought back to the HPAC at its May 10, 2023 meeting. The applicant has provided additional operational information and exhibits depicting the proposed light fixtures, window screens, revised doors, revised windows, and revised security gates.

Based on the updated information, staff recommends approval of the proposal, with a modification requiring that the light fixtures be in an arts and crafts style, with shaping similar to the structure (Condition No. 7). All other conditions and findings have been updated to reflect the new exhibits provided. Otherwise the analysis from the April 13, 2023 staff remains unchanged and is provided below.

SITE DATA

The site is zoned R-1-5 (Single Family Residential, 5,000 sq. ft. minimum site area). The site is located within the Historic District and is not listed on the Local Register of Historic Structures. The site contains a single-story duplex.



PROJECT DESCRIPTION

The applicant is requesting approval to perform exterior alterations to an existing duplex. The alterations as depicted and described in Exhibits “A” through “G” will consist of the following:

- Reinstallation of one hip roof dormer (Note: Building elevations depict the reinstallation of three dormers. The applicant has since altered the proposal to install only one dormer) (Exhibits “A” & “B”);
- Installation of two new roof mounted HVAC units. Per the applicant, the units are proposed on the roof instead of the ground to prevent mistreatment (Exhibits “A” & “B”);
- Removal and replacement of all existing windows with dual pane vinyl windows containing muntins (Exhibit “E”). Per the applicant, the original windows still present on one of the units must be replaced due to their deteriorating condition;
- Removal and replacement of two front doors and two patio doors with panel doors. (Exhibit “D”); and
- Removal and replacement of existing fencing and a security gate with metal and wood materials (Exhibit “F”).

No other physical changes are proposed to the structure save for tile repair to the front entryway, driveway repair, and paving in the rear yard area, all of which are not subject to HPAC review.

Work has already been conducted to the structure, consisting of a reroof, removal of three original hip roof dormers, and staging for the HVAC units (see Exhibit “B”). A Building Permit was issued for the reroof on July 8, 2022. It is likely that the dormers were removed during reroof installation. When the applicant applied for an HVAC Building Permit on December 21, 2022, staff discovered the removal of the dormers, and referred the applicant to the HPAC for review. No Code Enforcement case has been initiated at this time.

DISCUSSION

Development Standards

The footprint of the structure will not be altered as a result of the proposal. As such, building improvements will comply with all development standards. Fencing and security gates proposed will be in the same location as the original fencing, parallel with the front façade of the duplex. However, no detail on the proposed fence height is provided. Condition No. 3 is recommended requiring that all fencing comply with development and design requirements of the Visalia Municipal Code, including height limitations. Enforcement of this condition will occur during Building Permit review.

Architectural Compatibility/Landscaping

Section 17.56.100 of the Historic Preservation Ordinance provides the HPAC with criteria to evaluate exterior alterations to buildings within the Historic District. The sections relevant to this proposal require that the HPAC consider the following:

- *Relationship of materials and textures, so that any alterations enhance neighborhood qualities such as compatibility, similarity, and continuity.*
- *Relationship of architectural details and roof shapes, so that alterations are compatible in appearance with surrounding structures.*
- *Directional Expression of Front Elevations. Structural shape, placement of openings, and architectural details should be used to give a compatible appearance with adjacent structures that may be horizontal, vertical or nondirectional in nature.*

- *Landscaping should reflect the predominant quality and quantity of landscaping within the surrounding area. The concern here is more with mass and continuity.*

As noted above, the Historic Preservation Ordinance requirements do not specifically prohibit or discourage alterations to structures located solely within the Historic District. Instead, alterations must preserve compatibility with the Historic District and surrounding area. The alterations proposed by the applicant are considered to preserve compatibility, with modifications, due to the following:

- **Dormers:** The Historic Preservation Ordinance does not require the reinstallation of architectural elements that have been removed from structures solely within the Historic District. However, the applicant has elected to reinstall one dormer, facing the Garden Street frontage. This assists in partially restoring an original element to the duplex and preserving its original directional expression. Restoration of the additional north and south facing dormers is not possible due to the location of HVAC equipment, which have placed where the dormers were previously located. As it stands, there are several buildings located within the immediate vicinity of the project site that contain hip roofs with no dormers.



Restoration of the additional north and south facing dormers is not possible due to the location of HVAC equipment, which have placed where the dormers were previously located. As it stands, there are several buildings located within the immediate vicinity of the project site that contain hip roofs with no dormers.

Staff notes that the building elevations show horizontal venting within the dormer roof. The original dormer vents had cross hatching (see Figure 1). Condition No. 4 is recommended, requiring the applicant to add cross hatching elements similar to the original dormers.

- **HVAC Units:** The majority of buildings in the surrounding streetscape contain roof mounted HVAC units that can be viewed from the street. Most units are partially screened by roof ridges, however this is not possible on the project site given the hip roof design and existing staging work already conducted. Given these conditions, Staff considers the proposal as meeting the requirements of the Historic Preservation Ordinance.
- **Windows:** Per the applicant only one unit contains original windows which, due to their deteriorating condition, cannot be repaired. The second unit contains vinyl windows. The proposal to replace all the windows with dual pane vinyl windows will increase uniformity of window treatments on the structure. The buildings in the vicinity largely contain single hung windows with muntins in their front facades. Per Exhibit “E”, the applicant proposes similar style windows, thereby increasing compatibility with the surrounding buildings.
- **Doors:** Three of the four existing doors are unadorned, and provide no aesthetic value to the structure. The fourth door appears to be original, but cannot be easily viewed from the public right of way. Installation of four new panel doors will increase uniformity of door treatments onsite, improving the structures overall aesthetic.

- **Fencing:** The revised Historic Preservation Ordinance provides the HPAC with criteria to evaluate fencing proposals in the Historic District. Specifically, VMC Sec. 17.56.120.C emphasizes that *“Proposals for new fencing or walls should be compatible with the character and architectural elements of the historic structure onsite and its period of original construction.”*

The date of construction for the structure is unknown. The exterior of the structure is composed of wood and stucco materials. The proposed fencing will contain both metal and wood materials. While both wood and metal are listed as approved material types within the revised Historic Preservation Ordinance, the proposed fence is decidedly modern, featuring horizontal stakes, square framing, and overlapping paneling (see Figure 2).

Staff recommends Condition No. 5 be added, requiring the fencing to contain vertical stakes, with metal elements containing ornamental features compatible with the Historic District and surrounding area.

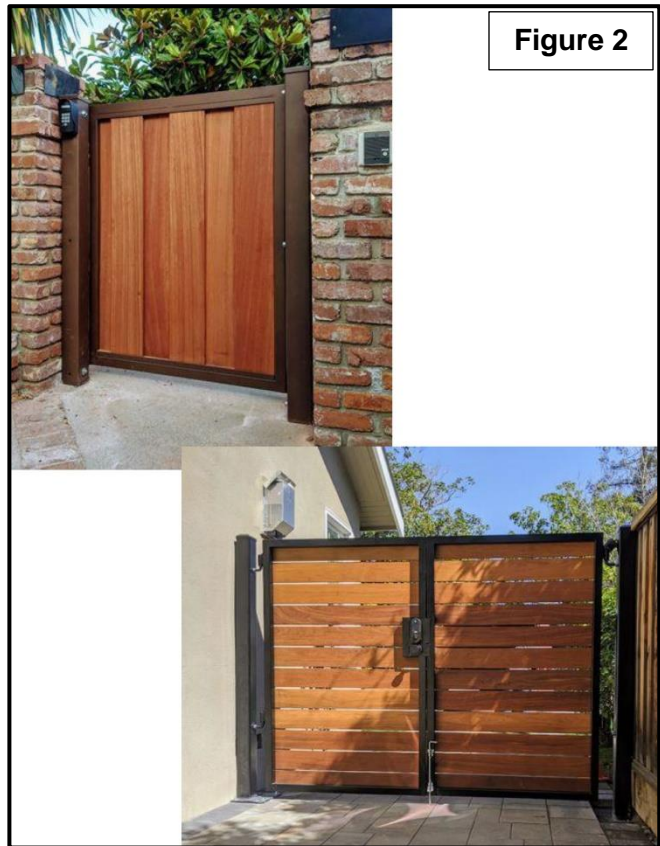


Figure 2

- **Landscaping:** Per the Operational Statement in Exhibit “G” the applicant has stated that a dead tree in the rear yard will be removed, and that four existing trees in the front yard will be trimmed (see Figure 3). No other information has been provided for landscaping onsite. At present the applicant complies with the requirement to reserve a minimum of 50% of the required front yard setback area for the purposes of landscaping. Staff recommends inclusion of Condition No. 6 requiring the installation and maintenance of landscaping within the front yard and right of way.



Figure 3

FINDINGS AND CONDITIONS

Staff recommends that the Committee approve the exterior alterations to the structure, subject to the findings and conditions of approval listed below:

Findings:

1. That the project site is within the Historic District and is not listed on the Local Register of Historic Structures.
2. That the proposed alterations to the structure as conditioned are consistent with uses onsite, the surrounding area, and the Historic District.
3. That the proposed alterations to the structure as conditioned are consistent with the Historic Preservation Ordinance and Historic Preservation Element.
4. That the proposed alterations to the structure as conditioned will not be injurious to the character of the Historic District.

Conditions:

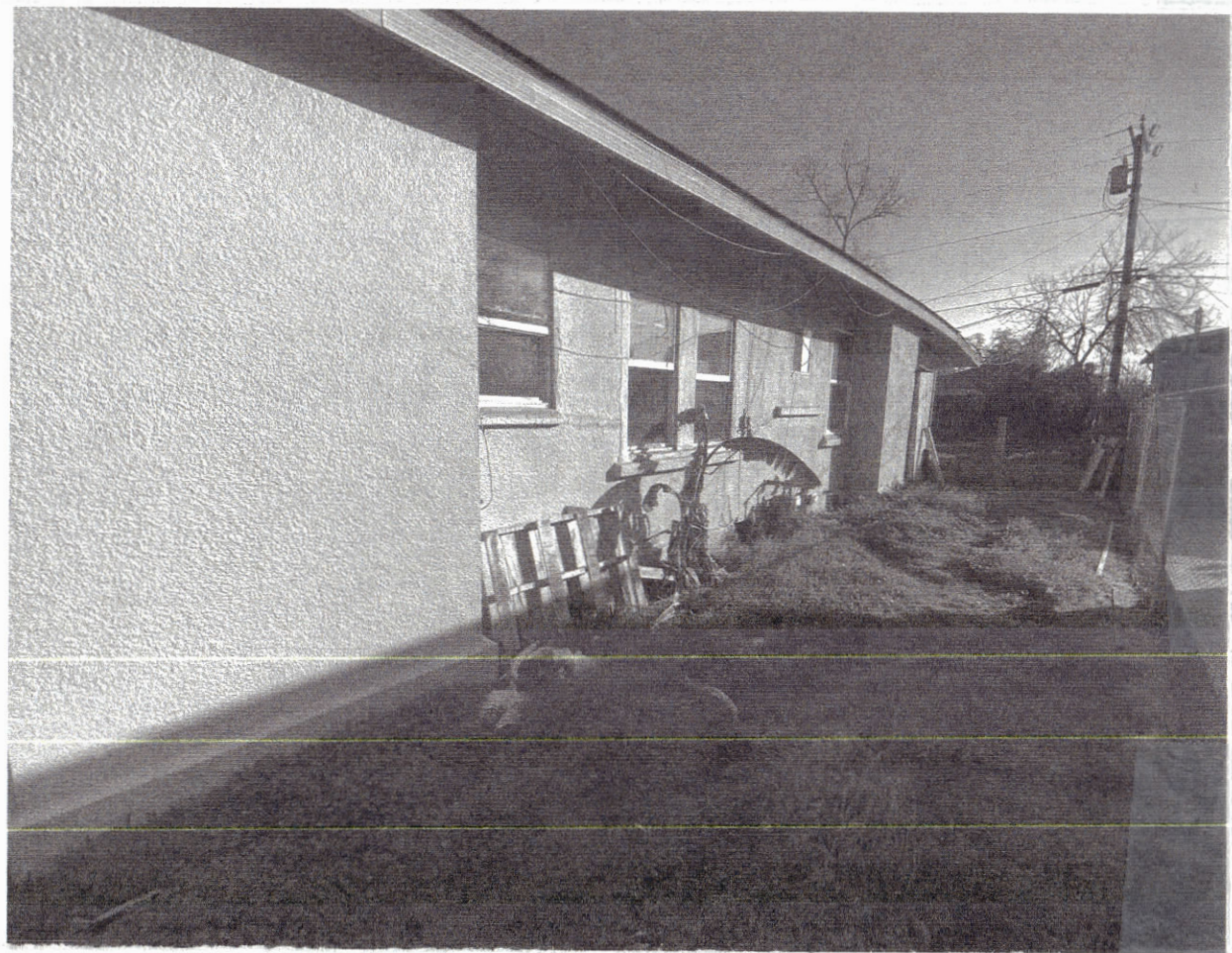
1. That the site be developed consistent with the site plan and elevations in Exhibits "A", "B", and "C", proposed doors in Exhibit "D", proposed windows in Exhibit "E", proposed fencing/security gates in Exhibit "F", operational statement in Exhibit "G", and light fixtures in Exhibit "H", except as modified by the conditions below.
2. That the applicant undergoes the appropriate City permitting process for exterior alterations on the project site.
3. That all fencing onsite complies with Visalia Municipal Code requirements.
4. That the dormer vent facing Garden Street shall include cross hatching elements similar to the original dormers.
5. That the applicant install and maintain landscaping within the front yard setback area of the project site, including planter areas within the public right of way.
6. That any other exterior alterations to the site shall be brought before this Committee for review and approval prior to the issuance of any Building Permits and/or their installation or construction.
7. That the lighting fixture contain arts and crafts style elements and feature a top similar in appearance to the roof of the structure onsite.
8. That all other City codes, ordinances, standards, and regulations shall be met.
9. That the approval from the Historic Preservation Advisory Committee shall lapse and shall become void twelve months after the date on which it became effective, unless the conditions of the approval allowed a shorter or greater time limit, or unless prior to the expiration of twelve months a building permit is issued by the city and construction is commenced and diligently pursued toward completion on the site that was the subject of the approval.

ATTACHMENTS

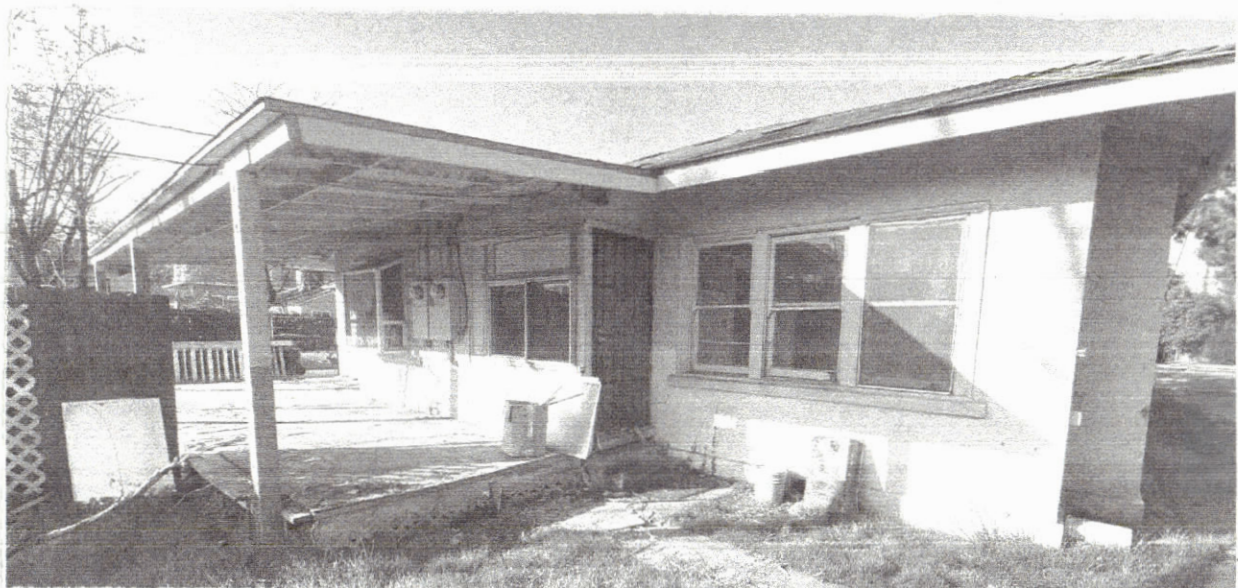
- Exhibit "A" – Site Plan and Building Elevations
- Exhibit "B" – Original and Existing Roof Elevations
- Exhibit "C" – Additional Existing Building Elevations
- Exhibit "D" – Revised Doors
- Exhibit "E" – Revised Windows and Screens
- Exhibit "F" – Revised Fencing/Security Gates
- Exhibit "G" – Revised Operational Statement
- Exhibit "H" – Proposed Light Fixtures
- Aerial Photo
- Historic District and Local Register Map

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.56.060, an appeal to the City Council may be submitted within ten days following the date of a decision by the Historic Preservation Advisory Committee (HPAC). An appeal shall be in writing and shall be filed with the City Clerk at 220 N. Santa Fe Street. The appeal shall specify errors or abuses of discretion by the HPAC, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.



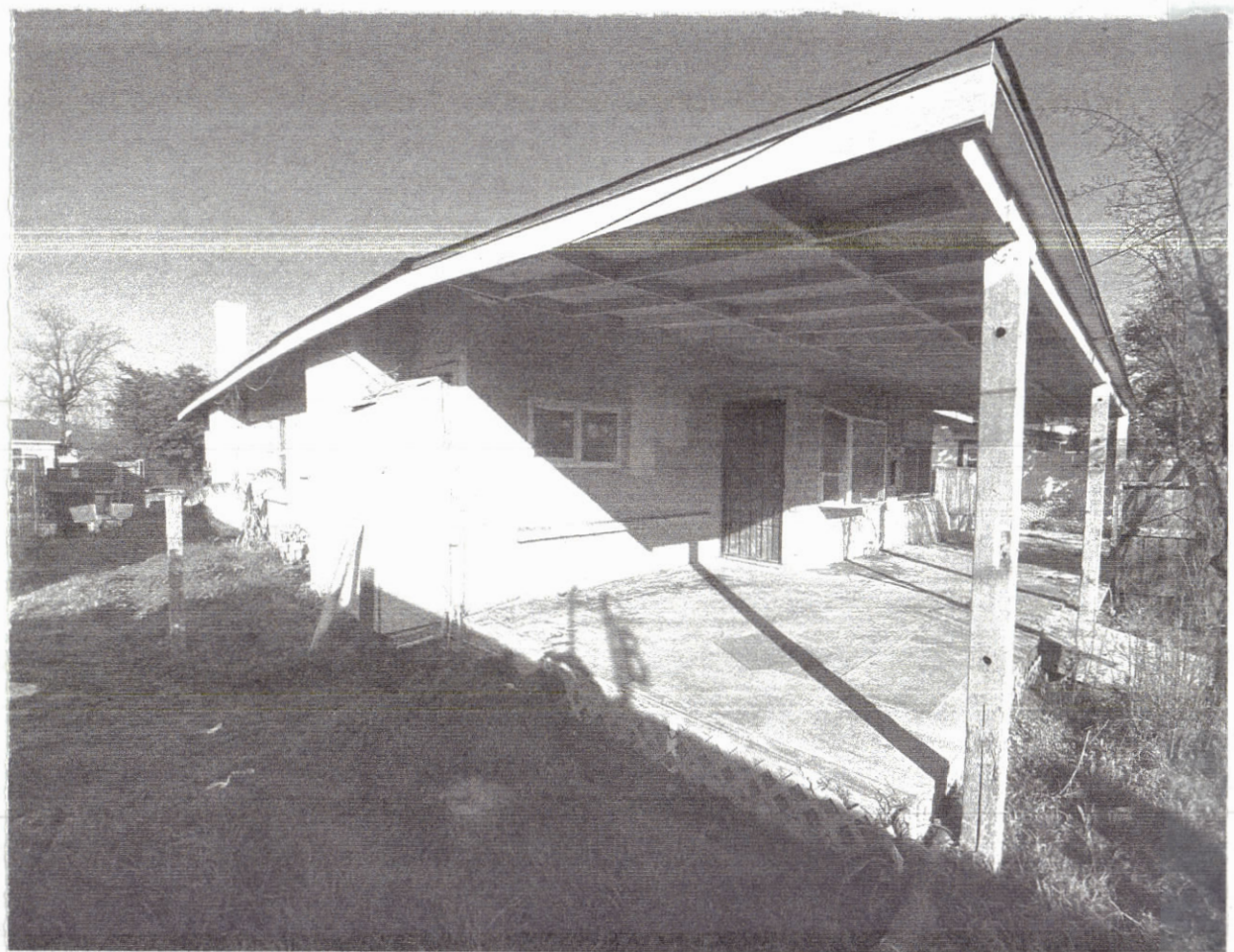
SOUTH ELEV



REAR ELEV



NORTH ELEV



REAR/SOUTH ELEV



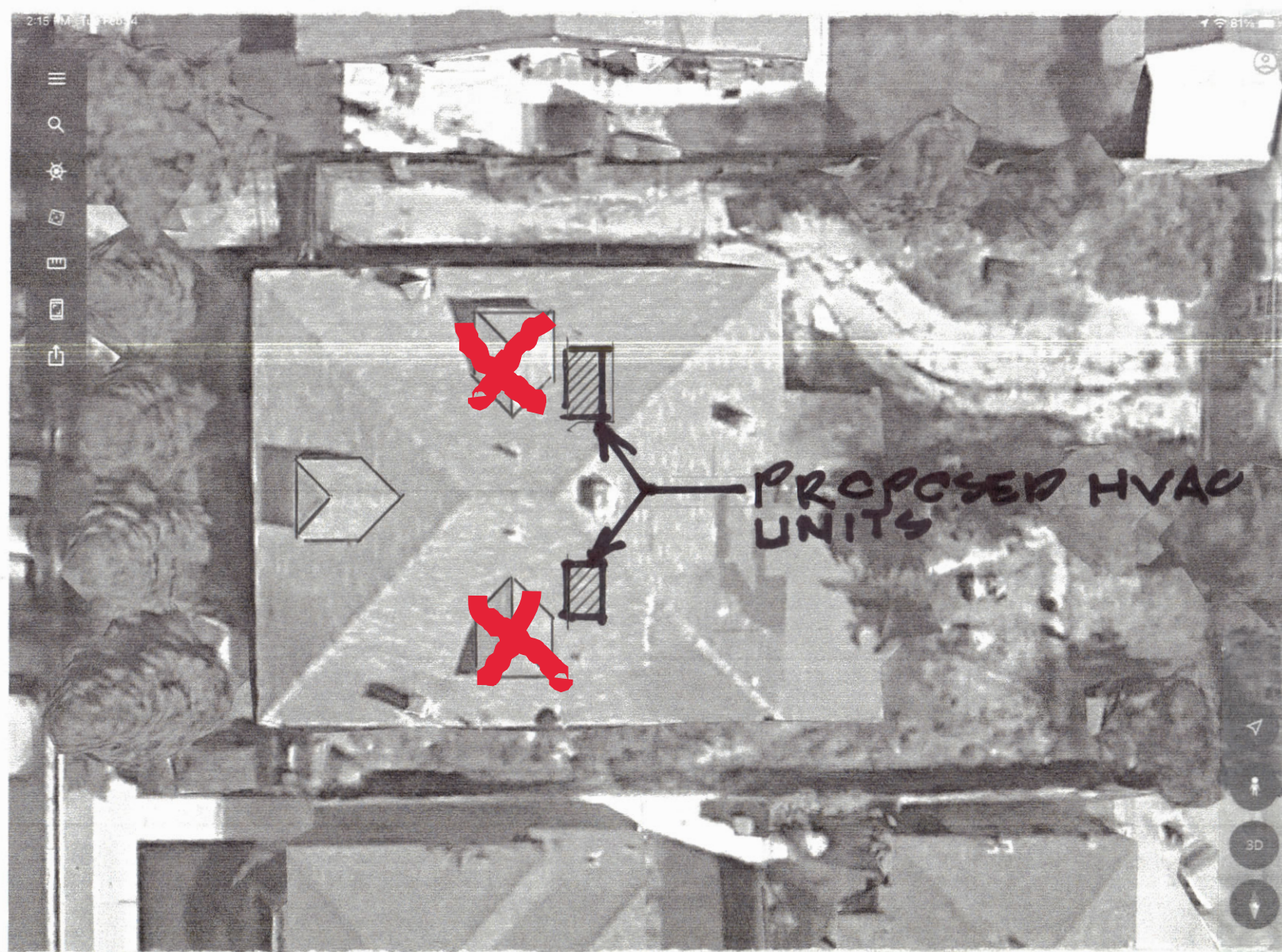
FRONT (WEST) ELEV



FRONT ELEVATION



SITE PLAN



ROOF PLAN

NOTE

- NO CHANGES ARE BEING MADE ON THE EXTERIOR. ONLY REPAIRS OF EXISTING MATERIAL
- ALL WORK THAT IS BEING DONE WILL BE INTERIOR WORK ONLY EXCEPT FOR THE 2 HVAC UNITS ON THE ROOF
- THIS BUILDING MAY BE IN THE HISTORICAL DISTRICT BUT AS YOU CAN SEE FROM THE PHOTOGRAPH THERE HAVE BEEN MANY CHANGES OVER THE YEARS BY PREVIOUS OWNERS. THE ONLY THING THIS OWNER HAS DONE WAS TO REMOVE THE THREE ROOF VENTS OF WHICH HE WILL REINSTALL ALL OTHER MATERIAL IS EXISTING
- THIS A DUPLEX

L. LEWIS ARCHITECT

ARCHITECTURE

PLANNING

INTERIORS

DATE

TITLE

NEW HVAC UNITS FOR

820 W. CENTER

VISALIA CA 93291

(559) 733-8393

ZAHIR AHMAD

436 S GARDEN ST

JOB NO

DATE

DRAWN BY

SHEET NO

EXHIBIT B

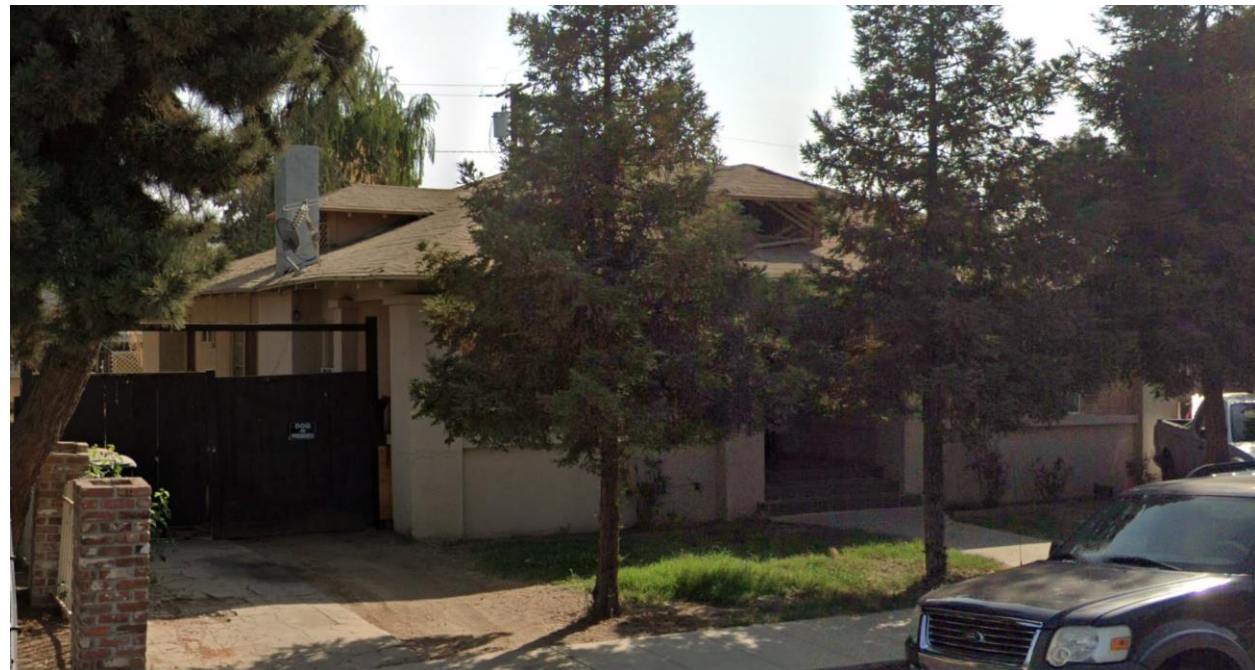






EXHIBIT C

WEST





NORTH



SOUTH




EAST













#1 Home Improvement Retailer




You're shopping
Hanford 
 OPEN until 10 pm

Delivering to
93230 







Cart | 0 items 


Home / Doors & Windows / Exterior Doors / Front Doors / Fiberglass Doors / Fiberglass Doors With Glass

Internet #203114642 Model #27165 Store SKU #267655







Masonite

36 in. x 80 in. Craftsman 6 Lite Left Hand Inswing Primed Smooth Fiberglass Prehung Front Door with No Brickmold



 (50)  Questions & Answers (50)





Hover Image to Zoom




+2

 Share  Print

\$374⁰⁰

 Pay \$349.00 after \$25 OFF your total qualifying purchase upon opening a new card. 
[Apply for a Home Depot Consumer Card](#)

Hanford Store

 1 in stock Aisle 31, Bay 001 [Text to Me](#)

Door Handing: Left-Hand/Inswing

EXHIBIT E















CLASSIC
VINYL
Ply Gem

Instructions included
for New Construction
or Replacement

CLASSIC
VINYL



SLIDING



NO GRILLES

HP Low-E glass meets
IECC building codes &
CA Title 24 requirements

Lift out each mink
cleaning easy

Ergonomic AutoLock
improved safety

Limited Lifetime Warranty

WARNING

This product has been tested
including Standard Quality, which
the State of California has
declared as a hazardous
substance for its manufacture.

36

CLASSIC SL 36X36 WHITE HPSC LH


\$169⁰⁰

MODEL BY
30 010

1000-780-263

Ply

800
1003-703-348

CLASSIC
VINYL

Ply Gem
Instructions included
for New Construction
or Replacement



CLASSIC
VINYL

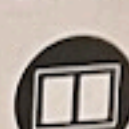
SLIDING

NO GRILLES
10' Low-E glass meets
REC building codes and
CA Title 24 requirements
• Lift out sash makes
cleaning easy
• Ergonomic AutoLock for
improved security
Limited Lifetime Warranty
WARNING
This product is not to be used in
any application where it is exposed
to direct sunlight or where it is
subjected to extreme temperatures.
See installation instructions for
proper use and limitations.
48X36
81002703248

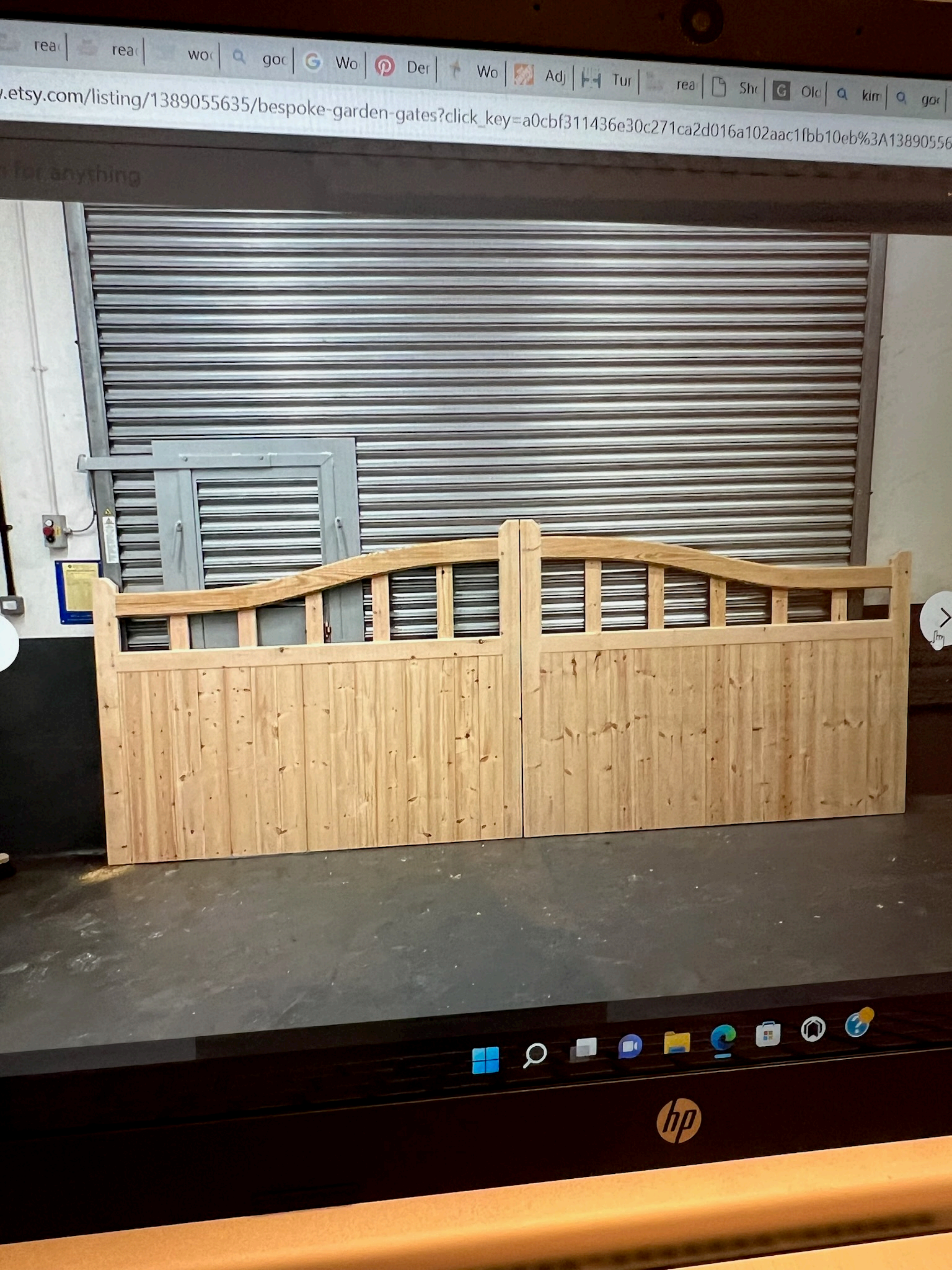


EXHIBIT F









etsy.com/listing/1389055635/bespoke-garden-gates?click_key=a0cbf311436e30c271ca2d016a102aac1fbb10eb%3A13890556

for anything



EXHIBIT "G"

434/436 S Garden St. Work/Permit



zahmad@oceanburg.com

To ● Cristobal Carrillo

Cc ○ zahmad@oceanburg.com; ○ oceanburg@oceanburg.com

Retention Policy 45 Day Retention (45 days)

Expires 05/19/2023



Reply



Reply All



Forward



Tue 04/04/2023 7:12 PM

Hi Cristobal,

I bought this property about a year ago and have been paying mortgage. I need to fix it to rent as I am losing money. I plan to fix the windows since they are old, rusty and non functional. I will also be changing the front and back doors as they are all damaged. I will also fix the wooden fence/partition between both units and around the property because the old one is broken. On the roof I will put one hip dormer roof in front side of the roof. Please feel free to ask if you have any questions. Thank you for your help.

Kind Regards,

Dr. Zahir Ahmad
Dani LLC
(559) 750-8702

RE: 436 S. Garden Street



zahmad@oceanburg.com

To ● Cristobal Carrillo

Retention Policy 45 Day Retention (45 days)

Expires 05/20/2023



2:54 PM

Hi,

The four front yard trees will be trimmed only. Thank you.

Regards,

Dr. Ahmad

RE: 436 S. Garden Street



zahmad@oceanburg.com

To ● Cristobal Carrillo

Retention Policy 45 Day Retention (45 days)

Expires 05/20/2023

You replied to this message on 04/05/2023 2:48 PM.



2:47 PM

Good afternoon,

There is a dead tree on the ground at 434 S Garden that will be removed at this point. Thank you.

Regards,

Dr. Ahmad
559-750-8702



April 27, 2023

Dani, LLC/Zahir Ahmad, MD
520 West Lacey Boulevard, Ste. 6
Hanford, CA 93230

RE: Historic Preservation Advisory Committee Item No. 2023-08 (434 and 436 South Garden Street)

On April 13, 2023, the Historic Preservation Advisory Committee (HPAC) reviewed your request to perform exterior alterations on a duplex within the R-1-5 (Single Family Residential, 5,000 sq. ft. minimum lot size) Zone. The project site is located at 434 and 436 South Garden Street (APN: 097-063-001).

The proposal was continued by the HPAC to the regular meeting of May 24, 2023, in order to provide the project applicant with an opportunity to attend the meeting to provide comment, as well as provide additional materials clarifying the intent of the proposal. Specifically, the HPAC requested additional information addressing the following:

- Provide a detail on the plans addressing how the proposed windows will be physically placed within the walls, and whether they will be able to accommodate the placement of window screens;

We will remove old windows and replace new windows of the utmost same size and in the same locations. New windows will be able to accommodate screens.

- Address whether window screens will be placed on any or all of the windows. If so provide a picture of the proposed window screens;

New windows will have screens installed. Please see picture 1

- Provide revised elevations for the windows, removing any muntins or grid features, as the original building's windows likely did not include muntins;

New windows will not have muntins or grid features. Please see picture 2

- Provide revised elevations of the security gates that minimize metal elements and feature wood planks that are vertical in placement, not horizontal;

New Security gate will be made of vertical wood planks and minimal metal elements. Please see picture 3 and 4

- Provide revised elevations for the proposed doors that are more compatible with the architectural style of the building;

We will provide more compatible doors. Please see picture 5, 6, 7.

- Provide pictures of the proposed light fixtures to be placed on the building exterior;

Please see picture 8 (front), 9 (back), 10 (entrance between units)

- Provide additional justification for why the north and south dormers should be removed and not rebuilt;

Owner will build new Dormers on front, south and north on already built new roof. This will be very costly to the owner but is willing to build new dormer on the front. If the city must want others owner will build them (front, south, north)

- Provide a revised site plan and building elevations showing that the north and south dormers will be removed, and clarifying the location of the proposed fencing and security gates;

Architect (Larry Lewis) has already submitted site plans Chain link fence on south side of property will be replaced with vertical wooden plank fence. The fence in back yard separating the two units will be removed to provide one shared common area.

- Provide additional information denoting why the HVAC units must be placed in the location proposed;

HVAC company (Airmaster) has informed us that the current location was chosen to provide balance of weight on the roof. This provides better support for the HVAC. It will provide better circulation and air distribution in the home.

- Provide information on how building walls, and whether any changes are proposed;

No Changes will be made besides a new coat of paint.

- Provide information on how existing landscaping will be maintained, and whether any new landscaping will be incorporated. If so provide a landscaping plan;

No changes will be made to landscape. We plan to hire a landscaping company for upkeep.

- Provide information on the chimneys, and whether they are still operational.

Chimney will not be changed. They are not operational.

Please note that staff spoke with Dr. Ahmad following the conclusion of the meeting. During that discussion, Ahmad requested that the continued hearing be held at an earlier date, due to delays increasing the cost of the project. After discussion with Community Development Director Paul Bernal, it was determined that the HPAC should review the proposal at an earlier date, to accommodate the wishes of the applicant. **As such the continued hearing for your item will resume at the May 10, 2023, meeting of the HPAC.**

Revised information and materials shall be submitted to City staff no later than May 2, 2023. If you have any questions, please contact me at (559) 713-4443 or e-mail cristobal.carrillo@visalia.city

Regards,



Cristobal Carrillo,
Associate Planner

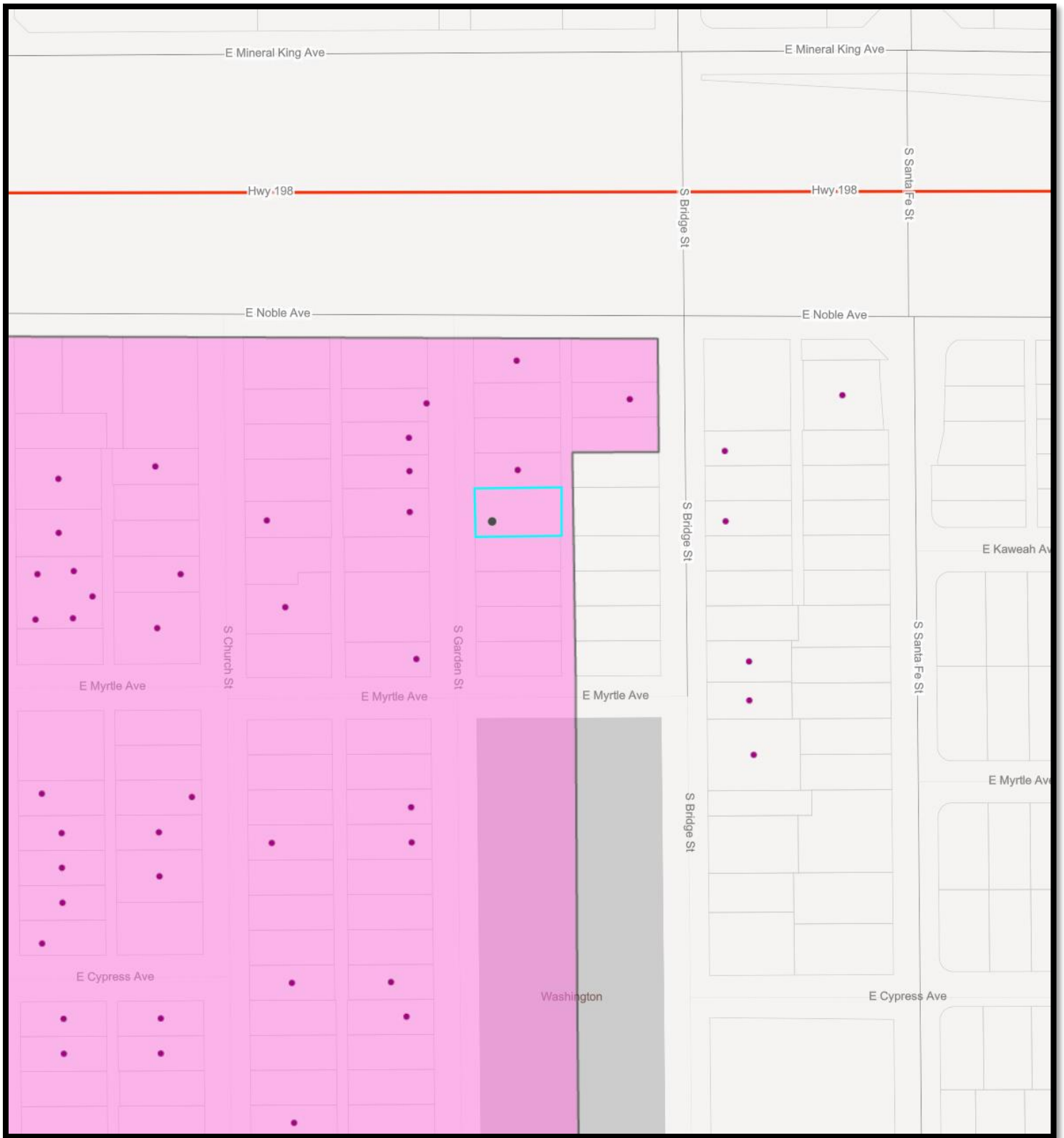
Cc: L. Lewis Architect, 820 W. Center Avenue, Visalia, CA 93291

EXHIBIT H





HPAC Item No. 2023-08 – 434, 436 South Garden Street – Exterior Alterations



Historic District and Local Register Map



REPORT TO THE CITY OF VISALIA HISTORIC PRESERVATION ADVISORY COMMITTEE

HEARING DATE: May 10, 2023

PROJECT PLANNER: Cristobal Carrillo, Associate Planner
Phone: (559) 713-4443
E-mail: cristobal.carrillo@visalia.city

SUBJECT: **Historic Preservation Advisory Committee Item No. 2023-10:** A request by Erik van der Vis to remove and replace forty-six single pane wood windows with dual pane aluminum clad windows, for an office within the D-MU (Downtown Mixed Use) Zone. The project site is located at 403 North Floral Street (APN: 094-341-005).

STAFF RECOMMENDATION

Staff recommends that the Historic Preservation Advisory Committee (HPAC) approve repair of the existing windows and removal of the window screens, as described in the report and conditions.

SITE DATA

The site is zoned D-MU (Downtown Mixed Use). The site is located within the Historic District and is listed on the Local Register of Historic Structures with an "Exceptional" classification. Known as the Hurley & Laird Building, the structure features Craftsman/Period Revival and Bungalow/Colonial Revival architectural elements. The site contains a two-story office.



PROJECT DESCRIPTION

The applicant is requesting approval to remove and replace 46 single pane wood windows and replace them with aluminum clad windows, as shown in Exhibits "A" and "C". Existing windows consist of a mix of single hung, casement, and fixed windows. Per the operational statement in Exhibit "B", the applicant states that the new windows will be in the "exact same style and color" as the original windows. Per the applicant, the project is necessary due to the inefficiency of the existing windows, which negate the effectiveness of the buildings HVAC system. The applicant also notes that existing screens, which cover 11 of the windows, will be removed and not replaced. A catalogue for the new windows is provided in Exhibit "D", though specific window choices have not been identified by the applicant. No other physical changes are proposed to the structure.

DISCUSSION

Development Standards

The footprint of the structure will not be altered as a result of the proposal. As such, building improvements will comply with all development standards.

Architectural Compatibility/Landscaping

Visalia Municipal Code Section 17.56.110 contains criteria for review of exterior alterations to structures listed on the Local Register. Criteria is aimed towards preserving original and distinguishing features of Local Register structures. This includes emphasis on the following:

- *The distinguishing original qualities or character of a building, structure, or site and its environment shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.*
- *Changes, which may have taken place in the course of time, are evidence of the history and development of a building, structure, or site and its environment. These changes may have acquired significance in their own right, and this significance shall be recognized and respected.*
- *Distinctive stylistic features or examples of skilled craftsmanship, which characterize a building, structure or site, shall be treated with sensitivity.*
- *Deteriorated architectural features shall be repaired rather than replaced, wherever possible. In the event replacement is necessary, the new material should match the material being replaced in composition, design, color, texture and other visual qualities. Repair or replacement of missing architectural features should be based on accurate duplications of features, substantiated by historical, physical or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other buildings or structures.*

Due to their design, variety, and placement, the windows are considered one of the distinguishing features of the building. As such, the Visalia Municipal Code directs that the elements be treated with sensitivity, and not destroyed. If such features are deteriorated, then the Visalia Municipal Code directs that the features be first repaired instead of replaced.

In this instance, the applicant has not submitted any evidence that the windows are in disrepair. It is only noted in the operational statement that the windows are inefficient. A site visit conducted by staff on May 5, 2023 determined that the windows did not appear to be damaged in any significant way. As such, replacement of all the windows with aluminum clad windows is considered an inappropriate solution, as it would remove an original and defining feature of the building. It is instead recommended that the existing windows be repaired to improve efficiency, so that they maintain their existing appearance.

The applicant has also requested removal of the 11 existing window screens. Staff notes that the Visalia Municipal Code allows for “*changes, which may have taken place in the course of time*” to remain, as they acquire significance in their own right. In this instance, removal of the majority of the screens onsite has allowed for the original windows to be clearly visible. This has greatly enhanced the visual appeal of the building. The majority of window screens are also located on the western building exterior, which is not clearly visible from West School Street. As such, removal of the remaining 11 window screens is considered an appropriate change that will not be detrimental to the building’s existing aesthetic qualities.

Alternatives

Alternatively, the HPAC can request that the item be continued to the next available meeting of the Committee, to allow the applicant to submit additional information regarding the condition of the existing windows.

FINDINGS AND CONDITIONS

Staff recommends that the Committee approve the exterior alterations to the structure, subject to the findings and conditions of approval listed below:

Findings:

1. That the project site is within the Historic District and is listed on the Local Register of Historic Structures.
2. That repair of the existing windows and removal of the window screens will be consistent with uses onsite, the surrounding area, and the Historic District.
3. That repair of the existing windows and removal of the window screens will be consistent with the Historic Preservation Ordinance and Historic Preservation Element.
4. That repair of the existing windows and removal of the window screens will not be injurious to the character of the Historic District.

Conditions:

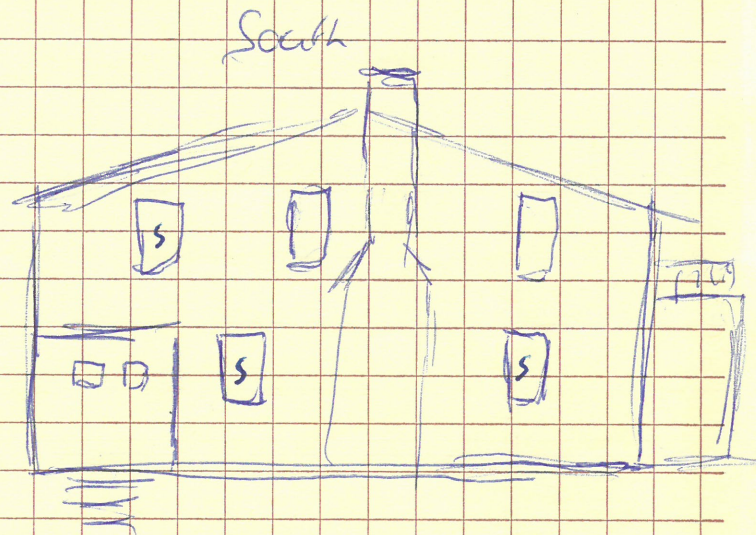
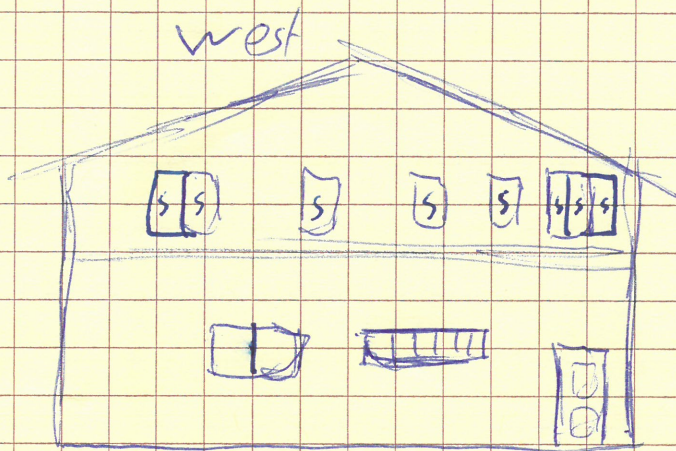
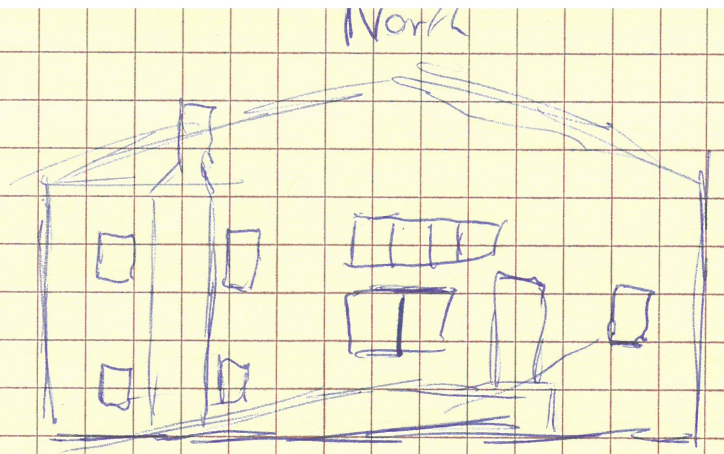
1. That existing windows shall be repaired to retain an appearance consistent with the site plan and elevations in Exhibits "A" and "C".
2. That the eleven existing window screens depicted in Exhibits "A" and "C" can be removed.
3. That the applicant undergoes the appropriate City permitting process for exterior alterations on the project site.
4. That any other exterior alterations to the site shall be brought before this Committee for review and approval prior to the issuance of any Building Permits and/or their installation or construction.
5. That all other City codes, ordinances, standards, and regulations shall be met.
6. That the approval from the Historic Preservation Advisory Committee shall lapse and shall become void twelve months after the date on which it became effective, unless the conditions of the approval allowed a shorter or greater time limit, or unless prior to the expiration of twelve months a building permit is issued by the city and construction is commenced and diligently pursued toward completion on the site that was the subject of the approval.

ATTACHMENTS

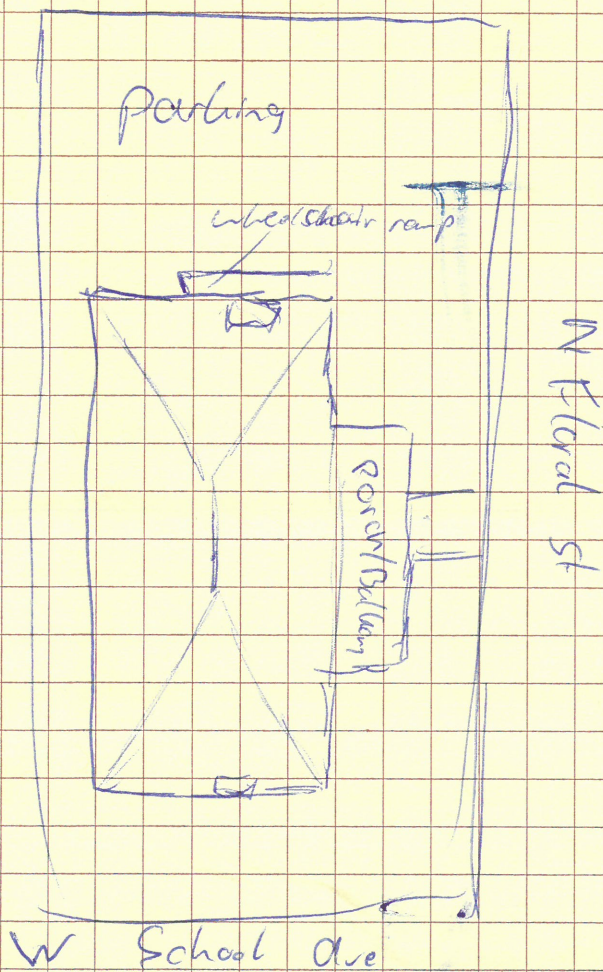
- Exhibit "A" – Site Plan and Building Elevations
- Exhibit "B" – Operational Statement
- Exhibit "C" – Existing Building Elevations
- Exhibit "D" – Andersen Windows & Doors E-Series Catalogue
- Aerial Photo
- Historic District and Local Register Map

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.56.060, an appeal to the City Council may be submitted within ten days following the date of a decision by the Historic Preservation Advisory Committee (HPAC). An appeal shall be in writing and shall be filed with the City Clerk at 220 N. Santa Fe Street. The appeal shall specify errors or abuses of discretion by the HPAC, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.



screen on door



Erik and Lida van der Vis

25948 Road 92

Tulare, CA 93274

(559)679-2914

To, Historic preservation advisory committee.

We would like to replace all the windows on our historic office building located on 403N Floral, better known as the "Hurley and Laird" building.

The current windows are single pane and are very inefficient, it is a real challenge to keep the inside cool during the summer and warm in the winter. The building is currently used by former attorneys who worked for Hurley and Laird.

We cannot justify the sky-high electric bill and the wasted energy associated with the current state of the property.

It is our goal to keep the building in its original state and preserve its authentic character.

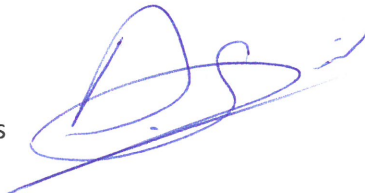
After consulting with Window Center Reedly we have decided to replace the current windows with aluminum clad windows in the exact same style and color.

On the West side of the building and on the South side are some fly screens installed which are not original. We would eliminate those.

Being that summer is fast approaching we would like to get this done as soon as possible.

Regards,

Erik van der Vis

A handwritten signature in blue ink, appearing to be 'Erik van der Vis', with a large, stylized loop at the end.

S





11



W.



N



N.



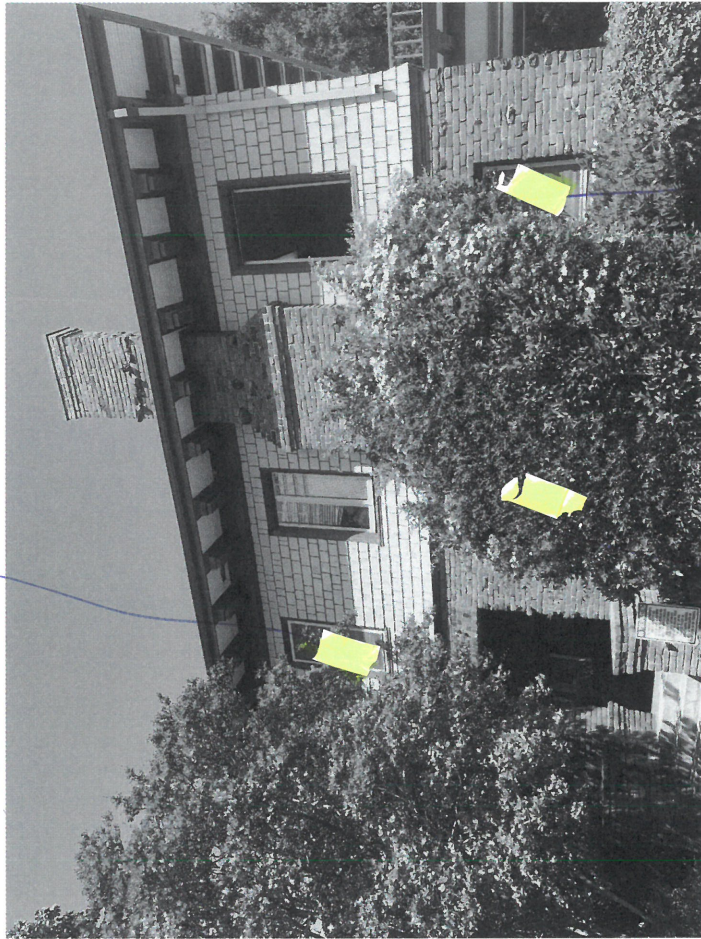
Fly screen



X 3

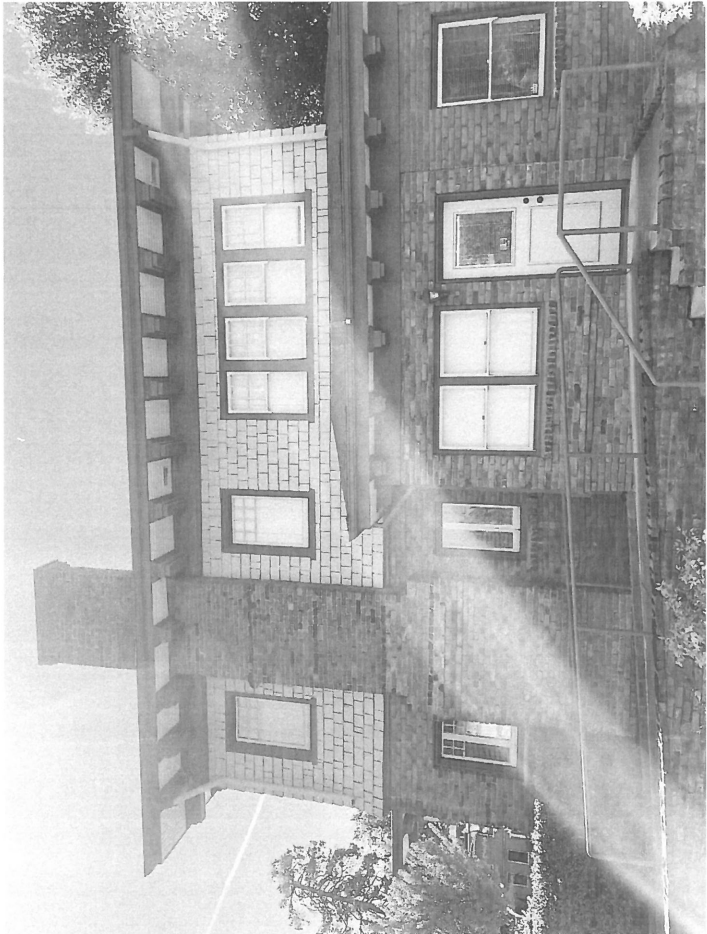


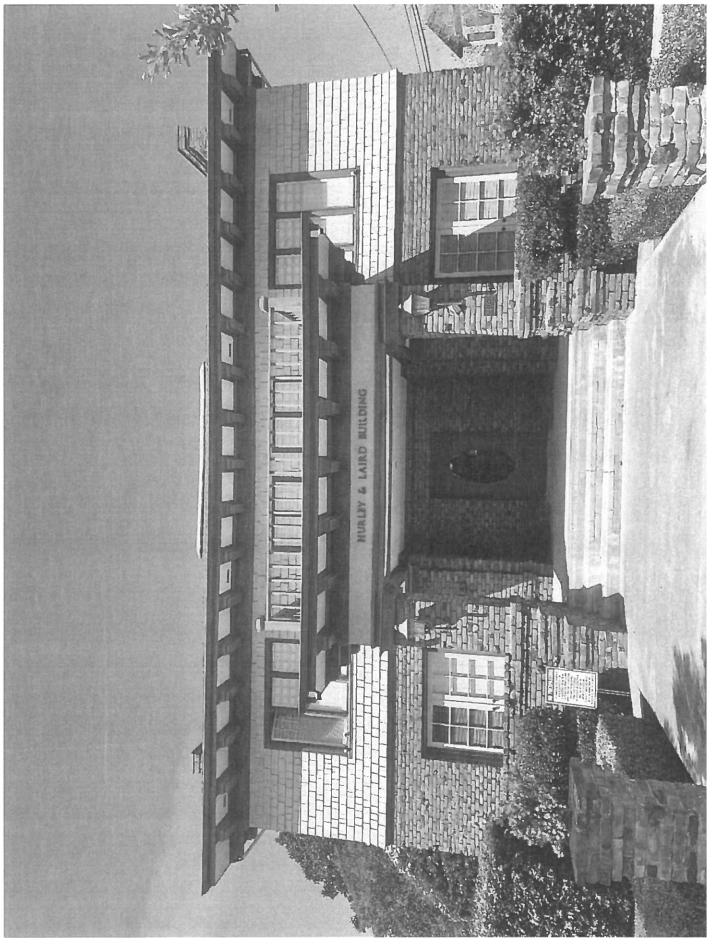
x2



W

x 3







E-SERIES WINDOWS & PATIO DOORS

E-Series windows and patio doors are made to your exact specifications for unmatched flexibility and design freedom. These premier products allow you to create custom shapes, dramatic sizes and striking combinations to set your work apart. 50 standard exterior colors, custom colors and anodized finishes, plus a range of interior wood species and beautiful interior stains. Or, if your customers want something even more distinctive, we can source virtually any wood species they desire. If it's possible, it's possible with E-Series windows and patio doors. For more information, visit andersenwindows.com/e-series.

MADE STRONG

Aluminum is a distinguishing element that enables us to offer the strength, beauty and design freedom for which E-Series products are known. Through decades of innovation, we have elevated the extruded aluminum-clad window and patio door category and perfected a made-to-order process that is unsurpassed.

STRENGTH

We harness the full strength of aluminum with heavy gauge, extruded aluminum-clad wood sash and frames. Our thick cladding offers greater structural capabilities than thinner, roll-form aluminum, while providing a superior exterior finish that resists the elements of inclement weather, abrasion and impact.*

BEAUTY

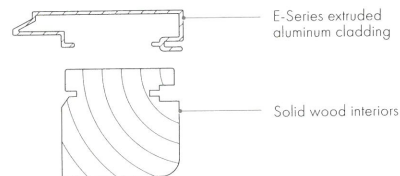
Aluminum offers a smooth finish and versatility in design that enables us to create windows and doors with distinctive character and unparalleled beauty. It provides an essential foundation for our quality, baked-on silicone polyester finish, and it enables us to offer a broad array of unique accessory metals to create or recreate the architectural style you need. And beauty doesn't stop on the outside — we give you the design freedom you need to create a look of distinction both inside and out.

VERSATILITY

Aluminum's strength and versatility allow us to offer beautiful made-to-order design solutions for practically any combination of shapes and styles you can imagine. We offer dozens of exterior accessory metals to match any architectural style, and our colorful 2-, 3- and 4-tone exteriors truly broaden your creative palette.

DURABILITY

Our aluminum cladding withstands nature's toughest elements — the extrusions slide onto the wood and are secured independently, allowing both wood and aluminum to expand and contract naturally. Our products are engineered to open, close, support, swing or slide reliably day after day.*



A solid wood core and extruded aluminum cladding give E-Series windows both strength and flexibility in many design applications.



*Visit andersenwindows.com/warranty for details.

ENGINEERED FOR PERFORMANCE & DURABILITY

ENERGY-SAVING GLASS FOR ANY CLIMATE

Andersen makes windows and patio doors with options that make them ENERGY STAR® v. 6.0 certified throughout the United States. Visit andersenwindows.com/energystar for more information and to verify that the product with your glass option is ENERGY STAR certified in your area.



LOW-MAINTENANCE EXTERIORS

Baked-on silicone polyester enamel exteriors offer virtually maintenance-free performance and durability. They're warranted for 10 years against chalking and color change and for 20 years against cracking, checking, peeling, flaking, blistering and loss of adhesion.*



PROTECTION FOR COASTAL AREAS

E-Series windows and patio doors with Stormwatch® Protection meet building code requirements in many Gulf and Atlantic coast states. See your local building code official for specific requirements. Visit andersenwindows.com/coastal for more information.

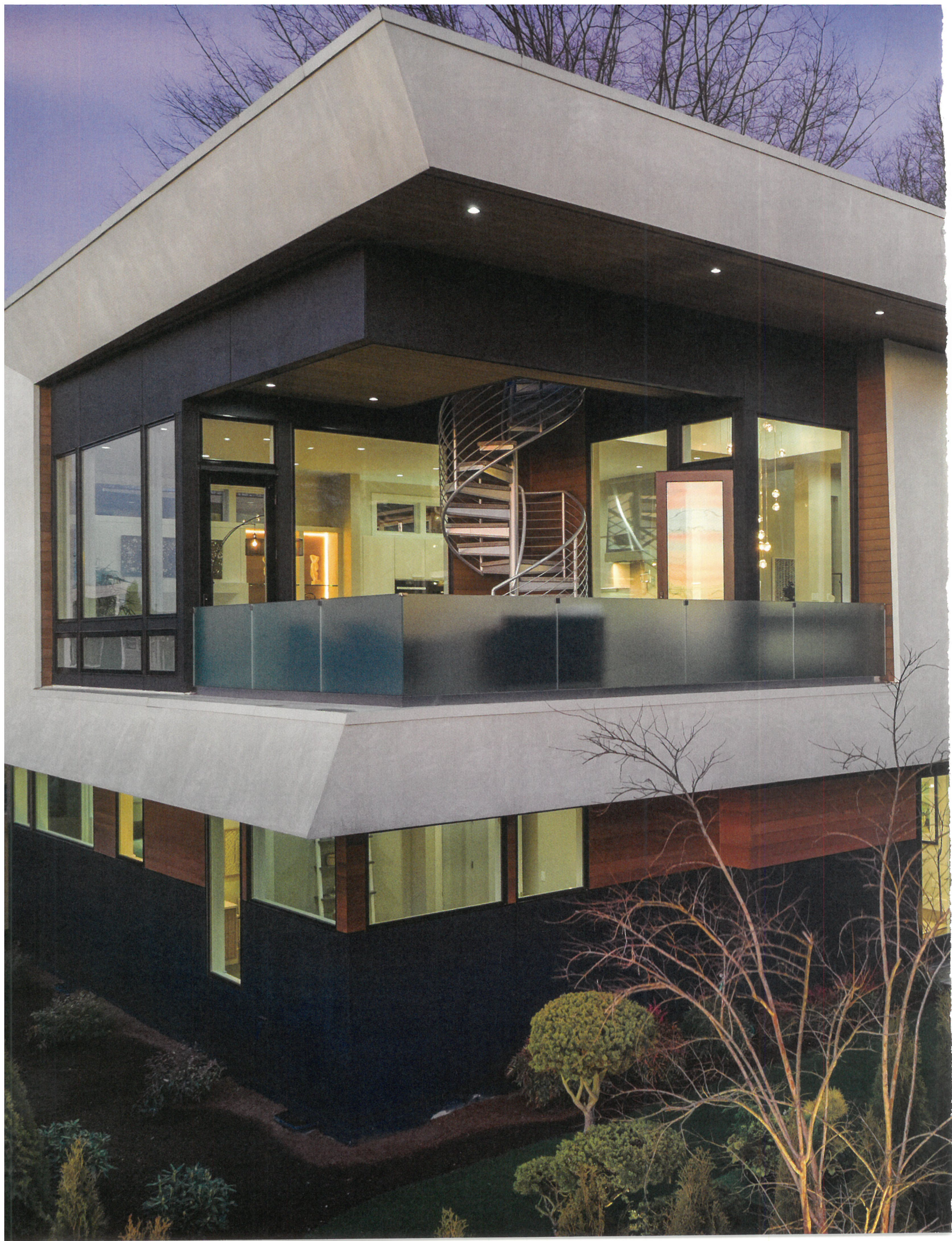


BUILT FOR YEARS TO COME

Our renowned Owner-2-Owner® limited warranty is fully transferrable and not prorated, making it one of the best coverage plans available — which means it can add resale value for your customers. It's also supported by the industry's largest service network.*

OWNER2OWNER®
LIMITED WARRANTY

*Visit andersenwindows.com/warranty for details.



CONTEMPORARY STYLE

Modern home styles incorporate clean lines, simple forms and open floor plans. They often feature floor-to-ceiling windows or doors with narrow profiles to maximize light and view, have multiple units arranged in rectangular groupings and use dark colors or metal finishes. E-Series products are available in these options to let you create a contemporary style.



Interior of black hinged patio door with a contemporary panel (3 1/16" profile)

CONTEMPORARY DESIGNS

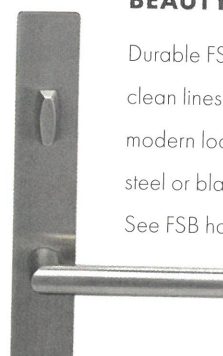
Dark colors and narrow profile options on windows, patio doors and even grille options offer a truly contemporary style.



Contemporary grille profile in black with black spacer bar

BEAUTY

Durable FSB® hinged door hardware features clean lines and a sleek finish for a thoroughly modern look. Choose from a satin stainless steel or black anodized aluminum finish. See FSB hardware options on page 29.



SLEEK INTERIORS

High-quality, factory-applied interior finishes offer convenience along with beauty. For a modern look, choose a black or anodized silver painted interior.



BRING YOUR VISION TO LIFE

Andersen has done extensive research into many architectural styles and how windows and patio doors play a critical role in achieving them. We've compiled it all into our Home Style Library. Whether you're looking for a modern home style or something more traditional, our library shows how easily you can achieve each style with our Andersen® products. To view our complete Home Style Library, visit andersenwindows.com/stylelibrary.



Miesian Modern



Industrial Modern



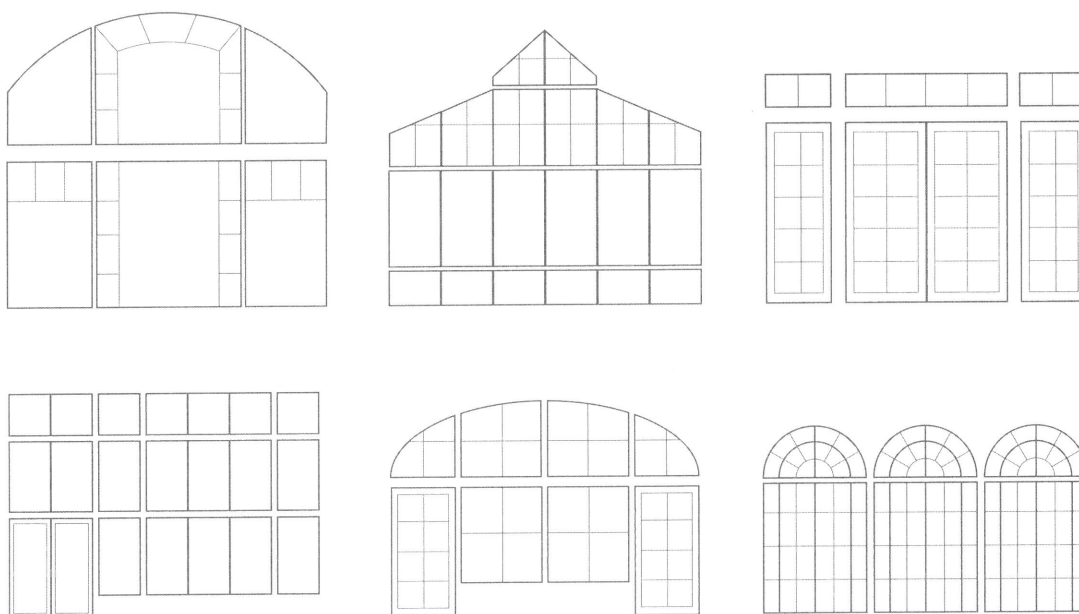
International Modern

UNLIMITED COMBINATIONS

E-Series windows and patio doors are made to your exact design specifications. Because we make your window or door especially for you, and since our options are virtually limitless, you have the advantage of combining shapes, sizes and styles for new construction or remodeling applications.

BUILDING BLOCKS

Our complete window and door styles are your building blocks for making any architectural statement. We give you the products and the design freedom you need to create the perfect solution for your project whether residential or commercial, new construction or remodeling. Unique shapes in varying combinations create focal points that become defining architectural elements.



SIZING OPTIONS

We believe you shouldn't have to settle for "close enough." Our made-to-order process enables us to make your windows and doors to the specific size you need. So when you go from inspirational sketch to architectural drawing, know that we will fulfill your design needs. We provide a thorough range of sizes for most applications and offer custom sizing anytime you need it.



UNLIMITED EXTERIORS

Color enhances your design and is a vital element of every architectural style. We believe it shouldn't have to cost more which is why our 50 exterior colors, an industry-leading modern palette, are available at no additional cost. Add to that our 2-, 3- and 4-tone exteriors and set your E-Series windows and patio doors apart from the rest.

If your inspiration comes from an autumn leaf, a river-washed stone, a glass of fine wine or even a classic car, we will bring it to life with our custom color capabilities. And for a look of distinction, we offer seven spectacular anodized finishes that truly shine.





50 EXTERIOR COLORS

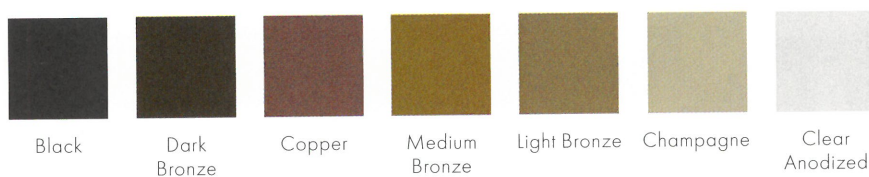
Our exclusive line of exterior colors offers a broad spectrum of quality, baked-on, silicone polyester enamel exteriors that meet AAMA 2604 specification. AAMA 2605 color compliance is also available.* Our limited warranty covers exteriors for 10 years against chalking and color change and 20 years against cracking, checking, peeling, flaking, blistering and loss of adhesion.**

EXTERIOR COLORS



7 ANODIZED FINISHES

Choose from a spectacular selection of anodized finishes. Anodizing is a process that penetrates the aluminum like a stain penetrates wood. The result is a rich, lustrous metallic appearance that cannot peel or flake and is not affected by sunlight.** This process produces a harder, more durable finish that makes this a perfect choice for high-traffic areas in commercial or residential buildings.



*AAMA 2605 finishes are available in any of our 50 colors or select a custom color of your choice.

**Visit andersenwindows.com/warranty for details.

Printing limitations prevent exact color and finish replication. See your Andersen supplier for actual color and finish samples.

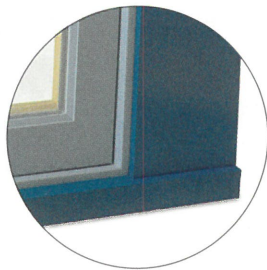


CUSTOM COLORS

While our large selection of exterior colors covers a lot of ground, inspiration comes in infinite hues. Let us match a paint chip, a photograph, a favorite work of art to bring your dream color into the light of day.

2-, 3- AND 4-TONE EXTERIORS

With our 2-, 3- and 4-tone color combinations, the sky's the limit. Mix and match up to four of our 50 exterior colors on the frame, sash, exterior trim and grilles for a combination look that's all your own.



Country blue and stormy blue



Sage, moss and canvas

A RANGE OF INTERIORS

Natural wood adds character to your design and defines a room's character while creating a warm, comfortable space that leaves a lasting impression. We offer distinctive wood varieties, custom wood species and interior stain and paint options to meet your design needs.





DISTINCTIVE WOOD SELECTIONS

Our distinctive woods add uncommon flair to any room. Each option has its own character, grain and staining capabilities, so you can select one that makes your windows stand out or one that blends seamlessly with your interior décor.

INTERIOR WOOD SPECIES



Pine

Mixed Grain
Douglas Fir

Oak

Maple

Hickory

Mahogany*

Cherry

Walnut

Vertical Grain
Douglas Fir

Alder

CUSTOM WOOD INTERIORS

If a unique wood species is required to complete your project, we will try to source any variety that meets our production standards and your needs.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

Wood species shown are unfinished.

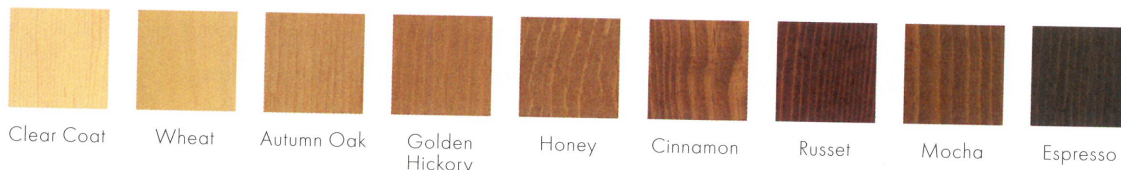
Naturally occurring variations in grain, color and texture of wood make each window one of a kind. We cannot guarantee consistency in wood grain and/or color within a particular species, product or project.



VARIETY OF INTERIOR FINISHES

Our high-quality, factory-applied stains offer you convenience along with beauty. Before staining, each wood component is treated with a preservative and insect repellent and dried thoroughly. We apply two coats of polyurethane for a long-lasting, durable finish, and because every exposed edge is stained before the window is assembled, you get a complete, consistent finish. Choose from nine stain colors. If you prefer a painted interior, choose one of our painted or primed options.

STAINED INTERIOR OPTIONS



Stained interior options shown on pine.

PAINTED INTERIOR OPTIONS



Painted interior options available on pine.

Dark bronze and black also available on maple.

Anodized silver available on maple only.

CUSTOM STAINS, PAINTS & COLOR MATCHING

When only a specific tint will do, we will create one for you, matching existing woodwork, interior furnishings or other items for just the right finish to your design.

*Visit andersenwindows.com/warranty for details.

Please note that custom finishes and primed option require additional finishing. Some nail and staple holes may need to be filled prior to applying the final finish. Printing limitations prevent exact finish and color replication. See your Andersen supplier for actual finish and color samples.

EXTERIOR & INTERIOR TRIM OPTIONS

Details take your project from ordinary to extraordinary. The perfect finishing touches make every window and patio door an irreplaceable part of any home or commercial building. We offer the trim and accessory metals that make the final details of your project easier to complete and more beautiful to look at.

EXTERIOR TRIM

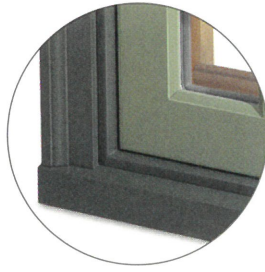
Designed to add depth and traditional appeal, our exterior trim options extend outward from the window or door frame, casting a shadow line consistent with true historical applications. Choose from our extended selection of flat and profiled casings, brick mould casings and sill nose. Match or contrast the trim with your windows and doors in any of our 50 exterior colors, custom colors and anodized finishes.



3 1/2" backband and bead casing and 1 1/2" sill nose shown on casement



3 1/2" flat casing shown on hinged inswing patio door



2" brick mould and 1 1/2" sill nose shown on casement

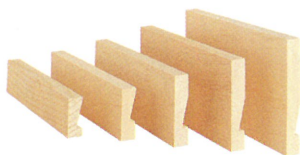


3 1/2" brick mould and 1 1/2" deep sill nose shown on double-hung

INTERIOR TRIM COMPONENTS

Extension Jambs

Pre-installed, dimensional extension jambs save time on jobsites and help enable a perfect installation. Available in all wood species, extension jambs can accommodate a wide variety of wall conditions.



Drywall Returns

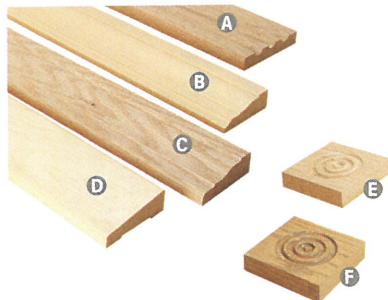
We offer drywall returns in three depths:

1 1/16", 7/16" and 7/16"



Wood Casing

A subtle touch around the perfect window or door makes your view even more special. Choose from four different casings and add plinth blocks at the corners for just the right touch of detail.



- A** 1/2" x 3 1/4" Fluted Casing
- B** 1 1/16" x 2 1/4" Colonial Casing (WM366)
- C** 1 1/16" x 2 1/4" Colonial Casing (WM356)
- D** 1 1/16" x 2 1/4" Ranch Casing (WM324)
- E** 2 1/2" Plinth Block
- F** 3 1/2" Plinth Block



UNLIMITED VIEWS

Whether your design demands performance, clarity or architectural detail, we have the glass and divided light solutions to make your views spectacular. For performance needs in a variety of environments, we offer a multitude of glass options, including our High-Performance Low-E4® glass and our exclusive Stormwatch® impact-resistant product systems for severe weather conditions.*

And for visual impact, made-to-order decorative glass and grilles give you infinite possibilities, so your design will be as original as your inspiration.

*See your local code official for building code requirements in your area.





GLASS OPTIONS

We offer a multitude of glass options to meet all of your design needs. Whether you're in need of energy efficiency or resistance to harsh weather conditions, we provide the solutions for you.

Low-E4® Glass, our standard glass option, provides excellent insulation from heat and cold. Compared to ordinary dual-pane glass, High-Performance Low-E4 glass is up to 44% more energy efficient in winter and up to 57% more efficient in summer*. Or consider Sun glass with its soft, glare-controlling tint.

Low-E4 Passive Sun® Glass is a great solution for colder climate zones where higher heat gain is desired. It allows a higher amount of the sun's heat to pass into the home, making it an ideal solution for passive solar applications.

Low-E4 SmartSun™ Glass combines performance with clarity — letting more light in and keeping more heat out. It blocks 95% of the sun's damaging ultraviolet rays. Enjoy the performance benefits of tinted glass without the loss of visibility.

Triple-Pane Glass with three panes of glass, combined with Low-E coatings, can provide enhanced energy performance. Adding triple-pane glass can produce a lower U-Factor than using regular dual-pane glass.

HeatLock® Technology can increase the energy efficiency of any E-Series window or door with Low-E4 or SmartSun glass. Applied to the room-side glass surface, it reflects heat back into the home and improves U-Factors, which can help the window or door meet ENERGY STAR® requirements.

Laminated Glass offers sound protection by reducing unwanted outside noise, making it ideal for locations like airports and high-volume traffic areas. It also provides forced entry and impact resistance.

Decorative & Specialty Glass options are also available. See our decorative glass collection at andersenwindows.com/artglass or combine beveled, frosted, grooved, colored or textured glass with three coming options to create your own design. Specialty glass includes tinted glass, spandrel glass and Mapes panels as well as rain, reeded and obscure glass options.

A removable translucent film shields glass from damage and simplifies finishing and cleaning on the jobsite.

GLASS	ENERGY		LIGHT	
	U-Factor	Solar Heat Gain Coefficient	Visible Light Transmittance	UV Protection
	How well a product prevents heat from escaping.	How well a product blocks heat caused by sunlight.	How much visible light comes through a product.	How well a product blocks ultraviolet rays.
SmartSun™	● ● ● ○	● ● ● ●	● ● ● ○	● ● ● ●
SmartSun with HeatLock® Coating	● ● ● ●	● ● ● ●	● ● ○ ○	● ● ● ●
Low-E4®	● ● ● ○	● ● ● ○	● ● ● ○	● ● ● ○
Low-E4 with HeatLock Coating	● ● ● ●	● ● ● ○	● ● ● ○	● ● ● ○
Sun	● ● ● ○	● ● ● ●	● ○ ○ ○	● ● ● ○
Passive Sun	● ● ● ○	● ○ ○ ○	● ● ● ○	● ● ● ○
Triple-Pane	● ● ● ●	● ● ● ○	● ● ● ○	● ● ● ●
Clear Dual-Pane	● ○ ○ ○	○ ○ ○ ○	● ● ● ●	○ ○ ○ ○

Center of glass performance only. Ratings based on glass options available as of January 2019. Visit www.andersenwindows.com/energystar for ENERGY STAR® map and NFRC total unit performance data.

*Winter and summer values are based on comparison of E-Series 3866 double-hung window U-Factor to the U-Factor for clear dual-pane glass non-metal frame default values from the 2006, 2009, 2012, 2015 and 2018 International Energy Conservation Code "Glazed Fenestration" Default Tables. See your Andersen supplier for actual glass samples.

"ENERGY STAR" is a registered trademark of the U.S. Environmental Protection Agency.

STORMWATCH® PROTECTION

Designed for use in coastal areas, these systems combine monolithic or insulated laminated glass with structural enhancements to meet or exceed the stringent code requirements of ASTM and TAS testing protocols.* You get the performance you need with the design options you want.

PRODUCT AVAILABILITY

Choose from a variety of coastal windows including casement, awning, double-hung** and fixed windows. Impact-resistant double-hung windows utilize two or more snuggers applied to the sill, creating a structural connection between the lower sash and frame. Simply close and lock the window and it's ready to withstand even the toughest weather conditions.*

We also offer a variety of coastal patio doors including inswing patio doors (impact-resistant insulated glass options only), outswing patio doors and French gliding patio doors. Surface bolts are required for impact certification of double doors.

Plus, you can select any of our 50 exterior colors, anodized finishes or custom colors. Choose from a variety of wood species, interior finishes, hardware, grille options, VeriLock® sensors and more. The only options not available on coastal products are decorative glass, blinds and shades.

PERFORMANCE & DURABILITY

Impact-resistant glass provides windborne debris protection,* reduced sound transmission and burglar resistance.

Designed to satisfy:

- AAMA/WDMA/CSA 101/I.S.2/A440-08 & -11
- Large missile impact test ASTM E1886/E1996
- TAS 201, 202, 203 (excluding inswing patio doors)
- Peace of mind with 24/7 protection

PG65[†]
PERFORMANCE
E-Series Casement 3060 HP Impact DP+65/-75
(AAMA/WDMA/CSA 101/I.S.2/A440-08 & -11)

Double-hung window
with Stormwatch Protection



Impact-Resistant Insulated Glass Options*

- Low-E
- SmartSun™
- Bronze or Gray
- Bronze/Bronze or Gray/Gray (meets Florida Turtle Code)

Impact-Resistant Monolithic Glass Options*

- Low-E
- SmartSun
- Bronze, Gray or Green
- Clear

StormWATCH®
PROTECTION

* See your local code official for building code requirements in your area.

** Double-hung windows are only available with impact-resistant monolithic bronze, gray, green and clear glass options.

† E-Series Casement 3060 HP Impact DP+65/-75 (AAMA/WDMA/CSA 101/I.S.2/A440-08 & -11). For more information, visit andersenwindows.com/e-series.

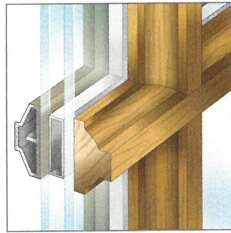


ARCHITECTURALLY AUTHENTIC GRILLES

We offer a variety of grille styles and patterns to choose from, or design your own with varying lines, curves and shapes.

FULL DIVIDED LIGHT (MODERN DIVIDED LIGHT)

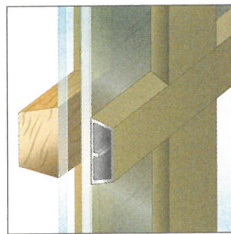
Give any window an authentic look with full divided light grilles that are permanently applied to the interior and exterior of your window with a spacer between the glass. Available in ovolo (colonial) and contemporary profiles.



Chamfer exterior grille and ovolo interior grille profiles

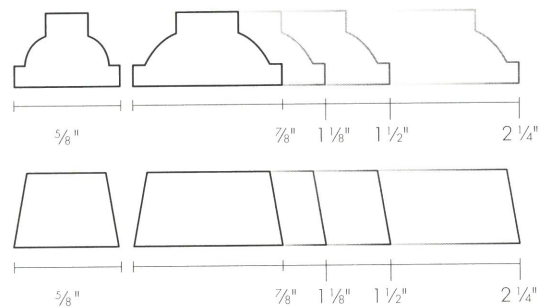
SIMULATED DIVIDED LIGHT (CLASSIC DIVIDED LIGHT)

An economical solution with traditional beauty, our simulated divided light features fixed exterior and interior grilles without an internal spacer. Available in ovolo and contemporary profiles.

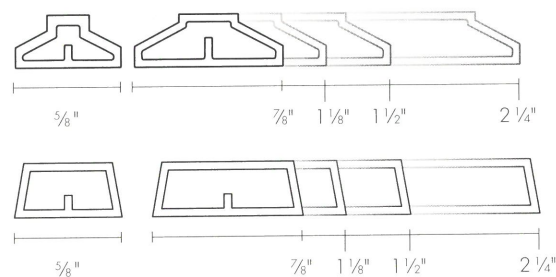


Contemporary exterior and interior grille profiles

Interior

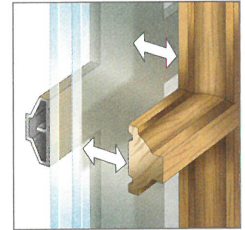


Exterior

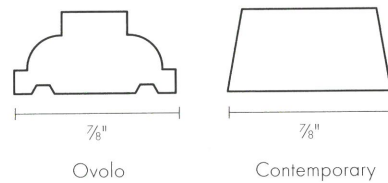


REMOVABLE INTERIOR WOOD GRILLES

Our removable wood grilles are installed on the interior surface. They are available with an optional surround and an optional permanently applied exterior grille. Available in ovolo and contemporary profiles.

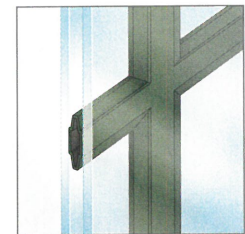


Ovolo profile and optional permanently applied exterior grille with chamfer profile

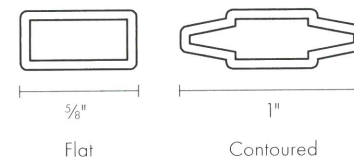


FINELIGHT™ GRILLES-BETWEEN-THE-GLASS

Aluminum grilles conveniently placed between two panes of glass make the glass easy to clean inside and out.

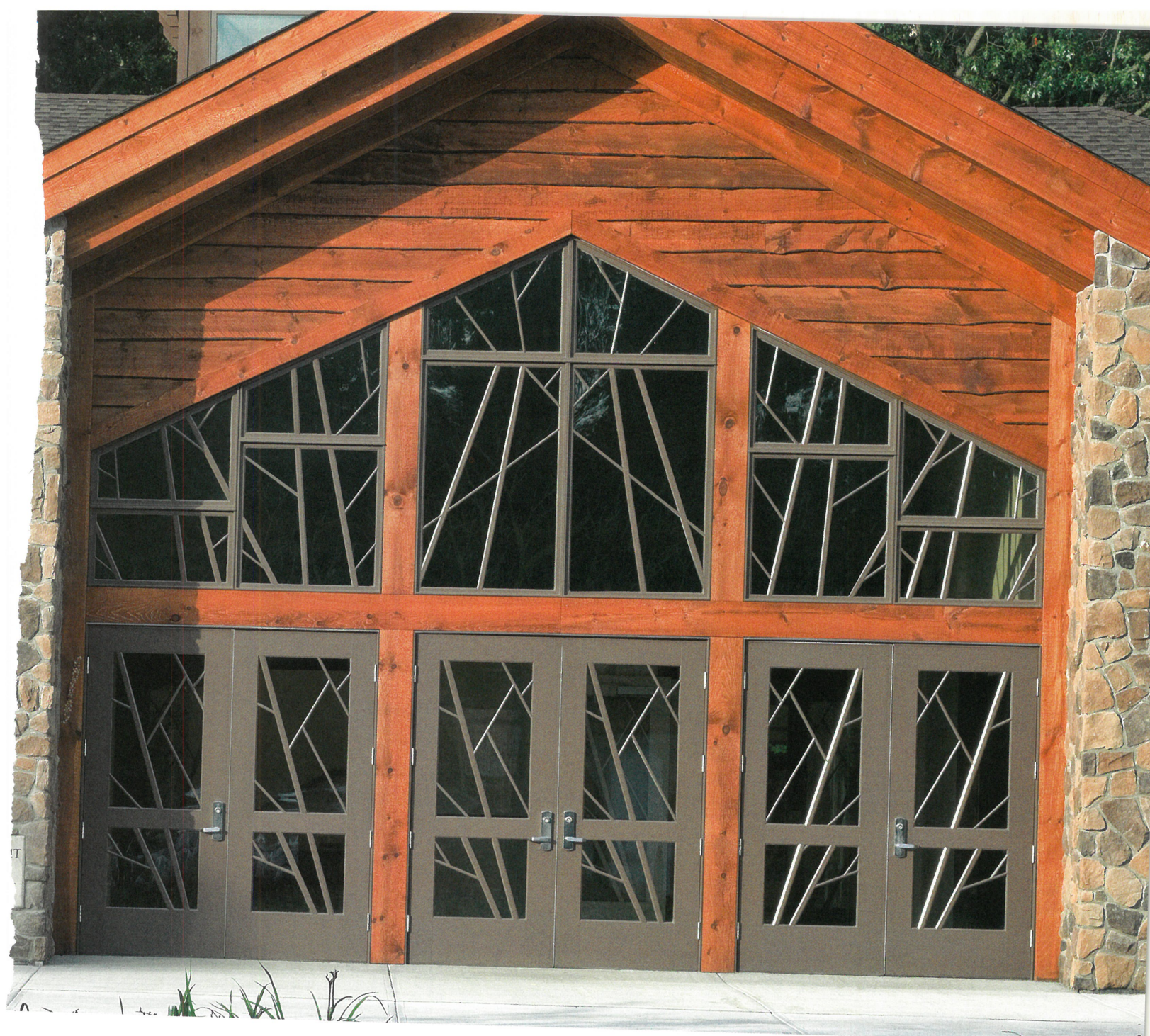


1" contoured profile



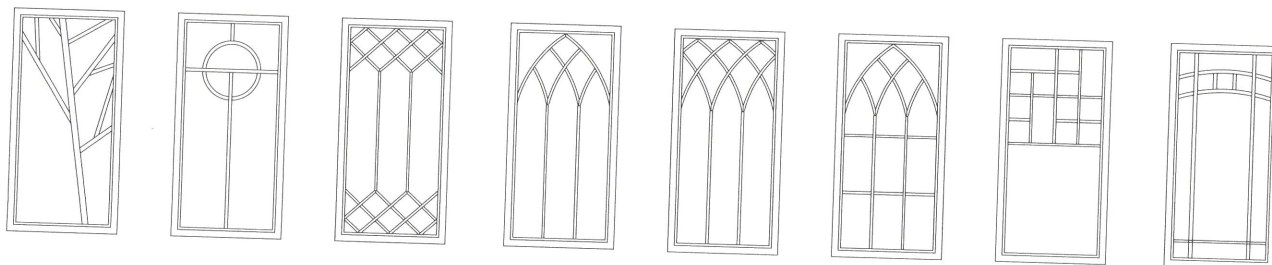
5/8" Color Options	1" Color Options
<input type="checkbox"/> Colony White	<input checked="" type="checkbox"/> Sierra Bronze/Colony White
<input checked="" type="checkbox"/> Sierra Bronze	<input checked="" type="checkbox"/> Pebble Tan/Colony White
<input checked="" type="checkbox"/> Pebble Tan	<input checked="" type="checkbox"/> Forest Green/Colony White
<input checked="" type="checkbox"/> Forest Green	

Choose from our broad palette of 50 colors or select from the two-tone paint combinations shown above.



DESIGN YOUR OWN GRILLES

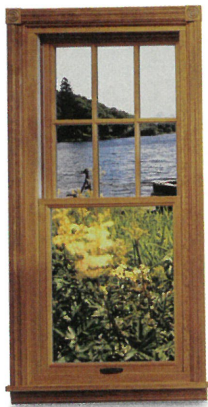
We offer a variety of grille patterns to choose from, or design your own with varying lines, curves and shapes to create a truly unique pattern.



SCREEN OUT THE INSECTS, NOT THE VIEW

E-Series insect screens let the beauty of the outdoors in, while keeping even small insects out. Choose from a wide selection of insect screen styles, including options that blend seamlessly with your window.

WINDOW INSECT SCREENS



TruScene



Conventional



Retractable

TruScene® Insect Screens*

TruScene insect screens for windows are made with a micro-fine stainless steel mesh. They let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects.

Wood-Veneer Insect Screens

For a clean appearance, E-Series interior window insect screens can feature a wood veneer to blend into your window.

Retractable Insect Screens

Retractable insect screens for casement and awning windows offer a sleek addition to any home. In place, the insect screen keeps insects out. When retracted, it provides a beautiful clear view.

PATIO DOOR INSECT SCREENS

Retractable Insect Screen**

This insect screen is built with an innovative color-matched aluminum housing that hides the insect screen when not in use. It's there when you need it and gone when you don't.

Hinged Insect Screen

Available for hinged inswing doors, this solid insect screen offers a full-door view and features a lockable latch and automatic closer.

Top-Hung Gliding Insect Screen

Open your room to the outdoors with the touch of a finger. Our top-hung gliding insect screen provides smooth and reliable operation, season after season.†

*TruScene wood-veneered insect screens utilize a different frame profile than other E-Series wood-veneered insect screens.

**Retractable insect screens are available on inswing, outswing and gliding patio doors. See your Andersen supplier for details.

†Visit andersenwindows.com/warranty for details.

All comparisons are made to conventional E-Series aluminum insect screens.

BETWEEN-THE-GLASS BLINDS & SHADES

What could be more convenient than blinds or shades between the panes of glass? Minimal cleaning and no worry about damage. It's simply a fitting way to put privacy at your fingertips. E-Series blinds and shades offer the ultimate in practicality for both residential and commercial applications.

BLINDS-BETWEEN-THE-GLASS

E-Series blinds-between-the-glass can be installed in many of our patio doors and rectangular picture windows. Placed between the two panes of glass away from dust, dirt and damage, you get the benefit of energy efficiency and privacy, control and convenience of blinds.



Tilt, raise and lower with one control cord.*



Blinds-Between-the-Glass

SYSTEM 3 BLINDS & SHADES

Add privacy and even greater energy efficiency with this low-maintenance blind or shade solution. Applied to the interior of the sash, the System 3 design creates a triple-glazed window for incredible energy efficiency. Our 5/8" blinds and pleated shades are available for casement, awning and picture (specialty auxiliary) windows, plus hinged patio doors, and are mounted to an extruded aluminum storm panel and applied to the interior of the sash. The removable storm panel is available in tan, gold, white or wood veneer.

Control Knobs



Shades



Blinds



System 3 Shades System 3 Blinds

*Not all sizes of blinds-between-the-glass are retractable.

Printing limitations prevent exact color duplication. See your Andersen supplier for actual color samples.

WINDOW HARDWARE

Complement a home's decor with E-Series window hardware,* available in a variety of finishes.

Casement & Awning



Operator Handle & Cover

Antique Brass | Black | Bright Chrome | Bronze | Gold
Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

Push Out Casement & Awning



Lock Handle



Insect Screen Pull

Antique Brass | Black
Oil Rubbed Bronze
Polished Brass
Satin Chrome | White

French Casement



Operator Handle & Cover

Antique Brass | **Black** | Bright Chrome | Bronze
Polished Brass | Satin Chrome | White



Sash Lock

Double-Hung



Sash Lift



Lock

Antique Brass | Black | Bright Chrome | Bronze | Gold
Oil Rubbed Bronze | **Pewter** | Polished Brass | Satin Chrome | White



Optional sash lock with VeriLock® security sensor shown in black. See page 27 for more information.

Gliding Windows



Lock



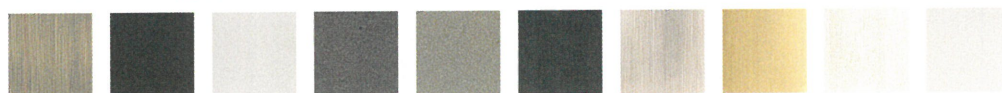
Slim Line Sash Pull

Antique Brass
Black | Bright Chrome
Bronze | Gold
Oil Rubbed Bronze
Pewter | Polished Brass
Satin Chrome | White

Black
Bronze
Gold
Polished Brass
White

Bold name denotes finish shown.

HARDWARE FINISHES



Antique Brass | Black | Bright Chrome | Bronze | Gold | Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

*Hardware sold separately.

Oil rubbed bronze is a "living" finishes that will change with time and use. Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.

THE SMARTEST TECHNOLOGY FOR THE SMARTEST HOMES

Andersen® E-Series windows and doors can now be part of today's connected home. Monitor the status of your windows and patio doors anytime and from anywhere with our sensor options.* Plus, our new Yale® Assure Lock®, shown on page 29, lets you remotely lock or unlock your hinged patio doors.* Learn more about the convenience and peace of mind Andersen smart home products offer at andersenwindows.com/connect.



Double-Hung Sash Lock VeriLock Security Sensor



Open/Closed Sensor

VERILOCK® SECURITY SENSORS

With the most advanced technology in the industry, VeriLock security sensors not only indicate whether windows and patio doors are open or closed, they even indicate if they are locked or unlocked.† No other sensor can do that.

Maintains Warranty — No drilling required which can void warranties.

Helps Maximize Energy Efficiency — Windows that are closed but unlocked lose air at a rate up to 3X that of a closed and locked window.** VeriLock sensors tell you which windows and patio doors are open or unlocked* so you can help manage air loss.

Preserves Beauty — Available in all hardware finishes.



WIRELESS OPEN/CLOSED SENSORS

These wireless sensors provide the peace of mind of knowing whether your windows and patio doors are open.

Easy Installation — No tools are required to install our sensors. Simply place the sensor on a window or patio door and line up the magnet with the sensor until the LED glows blue†

Maintains Warranty — No drilling required which can void warranties.

Compact Design — Sleek, compact design in a variety of colors to blend in with the window or patio door.



*When properly configured and maintained with a professionally installed security system and/or self-monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

**Based on testing of thirty-two (32) A-Series double-hung windows. Air loss through unlocked windows will vary based on window type and age, pressure differential, temperatures inside and outside the home, altitude and application.

†See product installation for details.

Printing limitations prevent exact color duplication. See your Andersen supplier for actual color samples.

PATIO DOOR HARDWARE

E-Series patio door hardware* is available in a variety of different designs to match virtually any style. Yuma®, Encino®, Anvers®, Newbury®, Covington™ and Whitmore® hardware options feature solid drop-forged brass for added strength, while Albany and Tribeca® hardware options are made of zinc die cast with durable powder-coated finishes.



YUMA

Distressed Bronze
Distressed Nickel



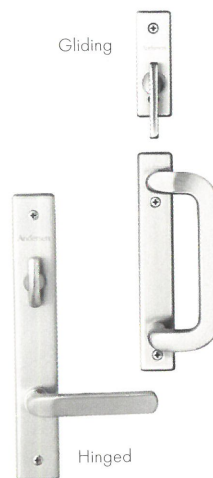
ENCINO

Distressed Bronze
Distressed Nickel



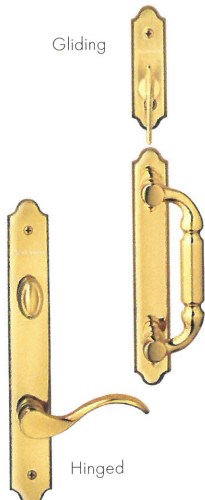
NEWBURY

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



ANVERS

Bright Brass | Oil Rubbed Bronze
Satin Nickel



COVINGTON

Antique Brass | **Bright Brass**
Oil Rubbed Bronze



WHITMORE

Antique Brass | Bright Brass
Oil Rubbed Bronze | Satin Nickel



ALBANY

Black | **Gold Dust**
Stone | White

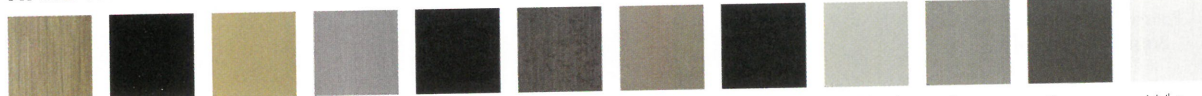


TRIBECA

Black | Stone | **White**

Bold name denotes finish shown.

HARDWARE FINISHES



Antique
Brass

Black

Bright
Brass

Brushed
Chrome

Distressed
Bronze

Distressed
Nickel

Gold Dust

Oil Rubbed
Bronze

Polished
Chrome

Satin
Nickel

Stone

White

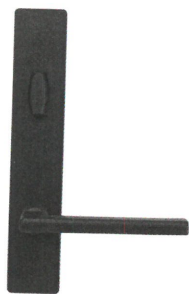
*Hardware sold separately.

Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use. Bright brass and satin nickel finishes on patio door hardware feature a 10-year limited warranty. Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.



FSB® HINGED PATIO DOOR HARDWARE

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



1035

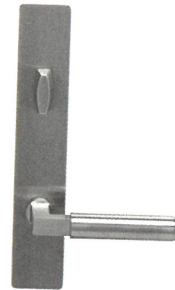


1075



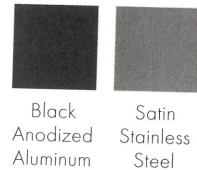
1076

Black Anodized Aluminum | Satin Stainless Steel



1102

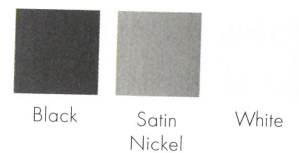
Satin Stainless Steel



Bold name denotes finish shown.

YALE® ASSURE LOCK®

Monitor, lock and unlock from anywhere with the Yale Assure Lock.† This slim, sleek keyless lock is designed exclusively for Andersen® hinged patio doors** and integrates with a wide range of smart home platforms.



*Hardware sold separately.

**Available on select hinged doors, see your Andersen supplier for details.

All marks where denoted are trademarks of their respective owners. Yale manufactures and supports the limited warranty for Yale Assure Lock for Andersen patio doors. Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.

ENVIRONMENTAL RESPONSIBILITY

It is more essential than ever that we all do our part to help protect the environment. While environmental responsibility may be new to some, to us, making environmentally responsible manufacturing decisions is nothing new. We've made responsible choices in the past and will continue to strive to be responsible in the future.

PRESERVING NATURE

To protect our natural resources, we use wood harvested from managed forests and leverage engineered wood technology whenever possible — we use finger-jointed wood and laminated veneer lumber, both of which use wood efficiently and result in superior performance. In addition, we use water-based finishes, which have less impact on the environment than oil-based products.

CONSERVING ENERGY

Our technology and design innovation creates greater energy efficiency in all our products. Our High-Performance Low-E4® glass provides superior thermal protection, helping significantly reduce heating and cooling requirements. Additional energy-efficient glass options include triple-pane glass and SmartSun™ glass. Combined with weathertight frames, sash and weatherstrip, E-Series windows and doors play an important role in energy conservation.



High-Performance Low-E4 glass is up to 45% more energy efficient in winter and up to 57% more energy efficient in summer compared to ordinary dual-pane glass.*

USING RECLAIMED MATERIALS

Our cladding contains pre-consumer reclaimed aluminum, which requires much less energy to process than virgin aluminum. In addition, our glass utilizes reclaimed glass, which reduces landfill waste.

REDUCING WASTE

We recycle whenever possible — office paper, corrugated cardboard, sawdust, scrap aluminum, paints and solvents. Our electrostatic paint system attracts the paint to the aluminum, creating an efficient use of materials. Packaging enhancements include frame protectors made of HDPE, a recyclable plastic.

TAKING AN ACTIVE ROLE

We work closely with the industry organizations shown to manufacture energy-efficient and environmentally responsible products.



ENVIRONMENTAL CERTIFICATIONS

E-Series windows and doors have received SCS Global Services (SCS) Indoor Advantage™ Gold certification for indoor air quality. Indoor air quality is an important issue because many people spend as much as 90% of their time indoors, either at home, work or school.



*Winter and summer values are based on comparison of E-Series 3866 double-hung window U-Factor to the U-Factor for clear dual-pane glass non-metal frame default values from the 2006, 2009, 2012, 2015 and 2018 International Energy Conservation Code "Glazed Fenestration" Default Tables.

All marks where denoted are trademarks of their respective owners.



CASEMENT WINDOWS

Simple, beautiful and extremely functional, this casement window offers enhanced energy performance. Plus, stainless steel hinges and tracks that open to 90° for great ventilation and easy cleaning. In addition, a single-lever, multi-point locking mechanism with minimally exposed hardware offers a sleek, modern look.

Casement Window Overview	34
French Casement Window Overview	36
Push Out Casement Window Overview	38

Sizing

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Custom sizing is available.





CASEMENT WINDOW

FEATURES

CASEMENT WINDOWS

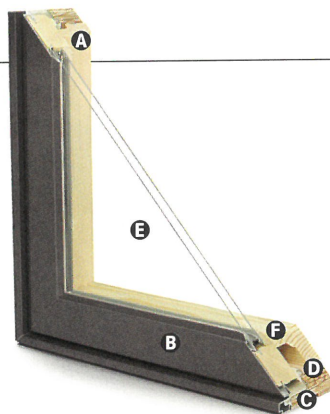
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options. Integral, butyl-backed corner keys provide a positive, tight seal.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.

C A Fibrex® material thermal barrier encompasses the interior perimeter of the frame and is a neutral beige color.



D A continuous perimeter bulb weatherstrip around the frame is positioned on the Fibrex material thermal barrier and provides solid surface contact with the sash.

A secondary bulb weatherstrip is applied on three sides of the sash into a stand-alone kerf on the aluminum extrusion. Available in white or optional black.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Equipped with a stainless steel gear operator, concealed hinges and hinge track. Arch casement units use stainless steel piano hinges.

Locks, handles and operator covers are available in 10 finishes and can be shipped separately closer to job completion.

Sash Locks



Sash Lock

Concealed sash locks (multi-point on units taller than 2'-8") provide a positive lock by operating one convenient lever. Stainless steel keepers resist corrosion.** Available in hardware finishes shown below.

HARDWARE OPTIONS



Operator Handle & Cover

Antique Brass | **Black**
Bright Chrome | Bronze
Gold | Oil Rubbed Bronze
Pewter | Polished Brass
Satin Chrome | White

Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Pine Mixed Grain Douglas Fir Oak Maple Hickory Mahogany* Cherry Walnut Vertical Grain Douglas Fir Alder

FACTORY-FINISHED INTERIORS



Clear Coat Wheat Autumn Oak Golden Hickory Honey Cinnamon Russet Mocha Espresso

INTERIOR PAINTED OPTIONS



White Birch Bark Primed (for paint) Canvas Sandtone Terratone Forest Green Dark Bronze Dove Gray Prairie Grass Red Rock Cocoa Bean Black Anodized Silver

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

**Visit andersenwindows.com/warranty for details.

Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

CASEMENT WINDOWS

HARDWARE

Power Operator



Power operators are available in bronze, white, black or gold.

Window Opening Control Device Kit

An optional Window Opening Control Device Kit is available, which limits opening the sash to less than 4" when the window is first opened. Available in stone and white.

Construction Hardware



Construction locks and operator handles keep your permanent window hardware away from the construction process and possible damage yet allow operation of windows during construction.

SENSORS

VeriLock® Security Sensors

VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

See page 27 for Smart Home options.

PRIVACY OPTIONS

System 3 Blinds



A 5/8" aluminum slat blind is mounted to an extruded aluminum blind panel and applied to the window, creating a triple-glazed window boasting privacy and energy efficiency. Available in three colors. Blind panels are offered in white, tan, gold or an optional wood veneer to match your interior.

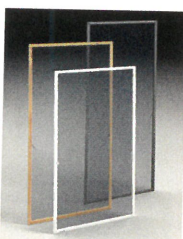
System 3 Shades

Pleated fabric shades are available in four colors to effortlessly and beautifully filter the light.

See page 25 for more information on our blinds and shades.

INSECT SCREENS

TruScene® Insect Screens



Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Retractable Insect Screens

Retractable insect screen available in wood-veneered frame options.

Conventional Insect Screens



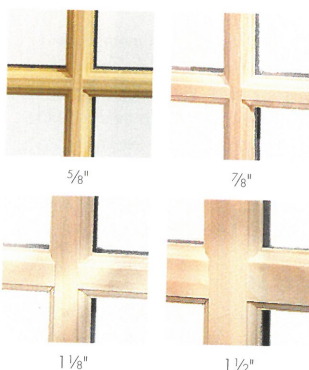
Charcoal fiberglass screen mesh fits into an aluminum frame in colors of bronze, white or gold as well as optional black. Aluminum screen mesh and wood-veneered insect screen also available.

See page 24 for more information on our insect screens.

GRILLES

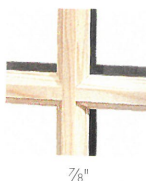
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



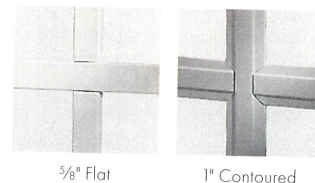
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

FRENCH CASEMENT WINDOW

FEATURES

FRENCH CASEMENT WINDOWS

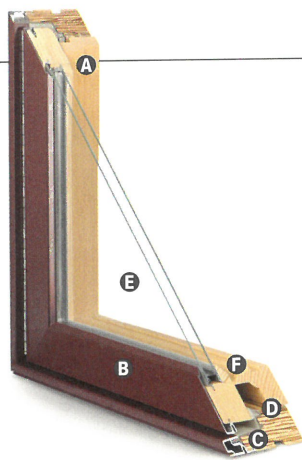
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.

C A Fibrex® material thermal barrier encompasses the interior perimeter of the frame and is a neutral beige color.



D A continuous perimeter bulb weatherstrip around the frame is positioned on the Fibrex material thermal barrier and provides solid surface contact with the sash.

Secondary weatherstrip is applied on three sides of the sash. Available in white or optional black.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Equipped with stainless steel gear operators and piano hinges.

Sash Locks

Concealed, multi-point sash locks provide a positive lock by operating one convenient lever. Stainless steel keepers resist corrosion.**



French Casement Lock

Antique Brass | **Black**
Bright Chrome | Bronze
Polished Brass
Satin Chrome | White

HARDWARE OPTIONS



Operator Handle & Cover

Antique Brass | **Black**
Bright Chrome | Bronze
Polished Brass
Satin Chrome | White

Bold name denotes finish shown.

HARDWARE FINISHES



EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.
**Visit andersenwindows.com/warranty for details.

Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

FRENCH CASEMENT WINDOWS

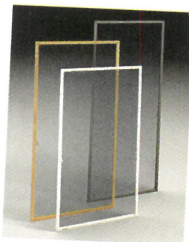
SENSORS

Open/Closed Sensors

Wireless open/closed sensors are available in four colors. See page 27 for details.

INSECT SCREENS

TruScene® Insect Screens



Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Retractable Insect Screens

Retractable insect screen available in wood-veneered frame options.

Conventional Insect Screens



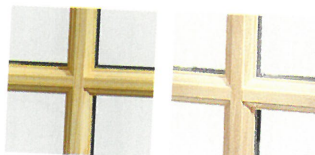
Charcoal fiberglass screen mesh fits into an aluminum frame in colors of bronze, white or gold as well as optional black. Aluminum screen mesh and wood-veneered insect screen also available.

See page 24 for more information on our insect screens.

GRILLES

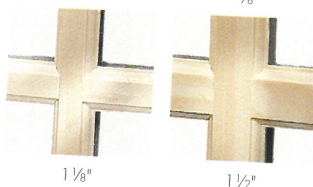
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ ", or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



$\frac{5}{8}$ "

$\frac{7}{8}$ "

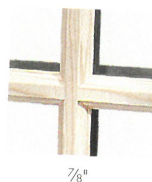


$1\frac{1}{8}$ "

$1\frac{1}{2}$ "

Simulated Divided Light

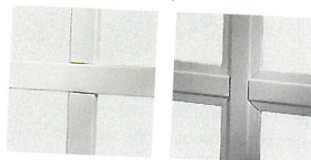
Permanent exterior and interior grilles without grille spacer bars. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ ", or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



$\frac{7}{8}$ "

Finelight™ Grilles-Between-the-Glass

Available in $\frac{5}{8}$ " flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



$\frac{5}{8}$ " Flat

1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a $\frac{7}{8}$ " width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



$\frac{7}{8}$ "

See page 22 for more information on grilles.

PUSH OUT CASEMENT WINDOW

FEATURES

PUSH OUT CASEMENT WINDOWS

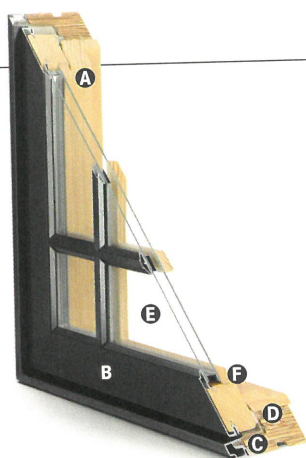
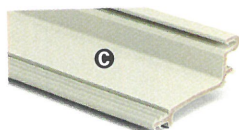
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.

C A Fibrex® material thermal barrier encompasses the interior perimeter of the frame and is a neutral beige color.



D A continuous perimeter bulb weatherstrip around the frame is positioned on the Fibrex material thermal barrier and provides solid surface contact with the sash.

A secondary bulb weatherstrip is applied on three sides of the sash. Available in white or optional black.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Equipped with a stainless steel 4-bar friction hinge. Larger units use a stainless steel piano hinge with stainless steel stays.

Manual lock system featuring lock handles allows for easy operation. Units under 40" high use a single lock, while units 40" and taller use dual locks.

HARDWARE OPTIONS



Lock Handle

Antique Brass | Black
Oil Rubbed Bronze
Polished Brass
Satin Chrome | White

Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

PUSH OUT CASEMENT WINDOWS

SENSORS

Open/Closed Sensors

Wireless open/closed sensors are available in four colors. See page 27 for details.

INSECT SCREENS

Hinged Insect Screens



Insect Screen
Pull

Hinged insect screen opens to the interior, providing access to the lock handle. Choose from charcoal fiberglass or aluminum screen mesh. Available in wood-veneered options. Insect screen pulls are available in antique brass, black, oil rubbed bronze, polished brass, satin chrome and white.

Retractable Insect Screens

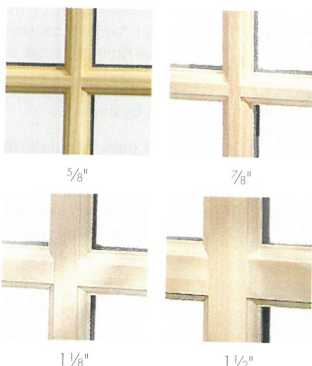
Retractable insect screen available in wood-veneered frame options. Extension jambs required for push out casement windows with retractable insect screens.

See page 24 for more information on our insect screen options.

GRILLES

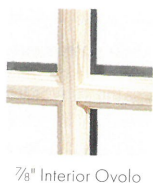
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ " or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Simulated Divided Light

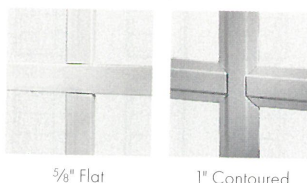
Permanent exterior and interior grilles without grille spacer bars. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ " or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



$\frac{7}{8}$ " Interior Ovolo

Finelight™ Grilles-Between-the-Glass

Available in $\frac{5}{8}$ " flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.

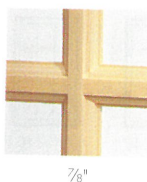


$\frac{5}{8}$ " Flat

1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a $\frac{7}{8}$ " width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



$\frac{7}{8}$ "

See page 22 for more information on grilles.

*Oil rubbed bronze is a "living" finish that will change with time and use.

CASEMENT WINDOWS

Casement Window Sizes

	1' 6 1/4"	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"
	1' 5 3/4"	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"
2' 0"							
2' 6 1/2"							
2' 8"							
3' 0"							
3' 4 1/2"							
4' 0"							
4' 6 1/2"							
5' 0"							
5' 6 1/2"							
6' 0"							

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6'10-1/2" structural header height).

†† Units meet the stated dimensions above when optional hardware for widest clear opening is used.

* A sash-limiting device is standard on 2856 and 3050 casement units. See your local code official for requirements in your area.

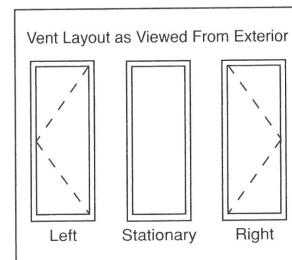
** A piano hinge and sash limiting device is standard on 2860, 3056 and 3060 casement units.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.



FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).





























































The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary.

Joined Casement Combinations	2-Wide		3-Wide		4-Wide		5-Wide	
Single Unit Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width
1'-5 3/4"	3'-0"	2'-11 1/2"	4'-5 3/4"	4'-5 1/4"	5'-11 1/2"	5'-11"	7'-5 1/4"	7'-4 3/4"
1'-8"	3'-4 1/2"	3'-4"	5'-0 1/2"	5'-0"	6'-8 1/2"	6'-8"	8'-4 1/2"	8'-4"
2'-0"	4'-0 1/2"	4'-0"	6'-0 1/2"	6'-0"	8'-0 1/2"	8'-0"	10'-0 1/2"	10'-0"
2'-4"	4'-8 1/2"	4'-8"	7'-0 1/2"	7'-0"	9'-4 1/2"	9'-4"	11'-8 1/2"	11'-8"
2'-6"	5'-0 1/2"	5'-0"	7'-6 1/2"	7'-6"	10'-0 1/2"	10'-0"	12'-6 1/2"	12'-6"
2'-8"	5'-4 1/2"	5'-4"	8'-0 1/2"	8'-0"	10'-8 1/2"	10'-8"	13'-4 1/2"	13'-4"
3'-0"	6'-0 1/2"	6'-0"	9'-0 1/2"	9'-0"	12'-0 1/2"	12'-0"	15'-0 1/2"	15'-0"

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Casement Picture Window Sizes

R.O. F.S.	3' 0 1/2"	3' 4 1/2"	4' 0 1/2"	5' 0 1/2"	6' 0 1/2"
	3' 0"	3' 4"	4' 0"	5' 0"	6' 0"
3' 4 1/2"					
3' 4"					
4' 0 1/2"					
4' 0"					
4' 6 1/2"					
4' 6"					
5' 0 1/2"					
5' 0"					
5' 6 1/2"					
5' 6"					
6' 0 1/2"					
6' 0"					

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.





































FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary.






































































































































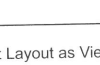






































Casement Transom Window Sizes

R.O. F.S.	1' 6 1/4"	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 4 1/2"	4' 0 1/2"
	1' 5 3/4"	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 4"	4' 0"
1' 2"									
1' 4"									
1' 6 1/4"									
1' 8"									

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

CASEMENT WINDOWS

Arch Casement Window Sizes

		2' 0 1/2"		4' 0 1/2"		2' 4 1/2"		4' 8 1/2"		2' 6 1/2"		5' 0 1/2"		2' 8 1/2"		5' 4 1/2"		3' 0 1/2"		6' 0 1/2"	
		2' 0"		4' 0"		2' 4"		4' 8"		2' 6"		5' 0"		2' 8"		5' 4"		3' 0"		6' 0"	
R.O. F.S.		3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD	
		2' 0 1/2"		2' 0"		2' 6 1/2"		2' 6"		2' 8 1/2"		2' 8"		3' 0 1/2"		3' 0"		3' 6 1/2"		3' 6"	
																					
		RCAX2020	RCAX2020-2	RCAX2420	RCAX2420-2	RCAX2620	RCAX2620-2	RCAX2820	RCAX2820-2	RCAX3020	RCAX3020-2	RCAX2020	RCAX2020-2	RCAX2420	RCAX2420-2	RCAX2620	RCAX2620-2	RCAX2820	RCAX2820-2	RCAX3020	RCAX3020-2
																					
		RCAX2026	RCAX2026-2	RCAX2426	RCAX2426-2	RCAX2626	RCAX2626-2	RCAX2826	RCAX2826-2	RCAX3026	RCAX3026-2	RCAX2026	RCAX2026-2	RCAX2426	RCAX2426-2	RCAX2626	RCAX2626-2	RCAX2826	RCAX2826-2	RCAX3026	RCAX3026-2
																					
		RCAX2028	RCAX2028-2	RCAX2428	RCAX2428-2	RCAX2628	RCAX2628-2	RCAX2828	RCAX2828-2	RCAX3028	RCAX3028-2	RCAX2028	RCAX2028-2	RCAX2428	RCAX2428-2	RCAX2628	RCAX2628-2	RCAX2828	RCAX2828-2	RCAX3028	RCAX3028-2
																					
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		RCAX2060	RCAX2060-2	RCAX2460 †	RCAX2460-2 †	RCAX2660 †	RCAX2660-2 †	RCAX2860 *	RCAX2860-2 *	RCAX3060 *	RCAX3060-2 *	RCAX2060	RCAX2060-2	RCAX2460 †	RCAX2460-2 †	RCAX2660 †	RCAX2660-2 †	RCAX2860 *	RCAX2860-2 *	RCAX3060 *	RCAX3060-2 *

Vent Layout as Viewed From Exterior



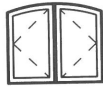
Left



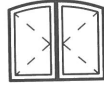
Stationary



Right



2 Wide
Left-Right























2 Wide
Right-Left

NOTES

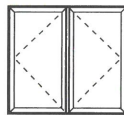
† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6' 10-1/2" structural header height).

* A sash-limiting device is standard on 2856, 2860, 3056 and 3060 casement units. See your local code official for requirements in your area.

French Casement Window Sizes

		3' 4 1/2"	4' 0 1/2"	4' 8 1/2"	5' 0 1/2"
		3' 4"	4' 0"	4' 8"	5' 0"
RO. FS.	3' 0 1/2"				
	3' 0"	FCAX3430	FCAX4030	FCAX4830	FCAX5030
	3' 4 1/2"				
	3' 4"	FCAX3434	FCAX4034	FCAX4834	FCAX5034
	4' 0 1/2"				
	4' 0"	FCAX3440 †	FCAX4040 †	FCAX4840 †	FCAX5040 †
	4' 6 1/2"				
	4' 6"	FCAX3446 †	FCAX4046 †	FCAX4846 †	FCAX5046 †
	5' 0 1/2"				
	5' 0"	FCAX3450 †	FCAX4050 †	FCAX4850 †	FCAX5050 †

Vent Layout as Viewed From Exterior



Left Sash Opens First
(Standard Configuration)

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6' 10-1/2" structural header height). Local codes may differ. Verify egress requirements with your local building code official.

Piano hinges and step jamb are standard on all French casement units.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary.

CASEMENT WINDOWS

Push Out Casement Window Sizes

		1' 6 1/4"	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"
		1' 5 3/4"	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"
R.O. F.S.	2' 0 1/2"							
	2' 6 1/2"	CPOAX153/4 20	CPOAX1820	CPOAX2020	CPOAX2420	CPOAX2620	CPOAX2820	CPOAX3020
	2' 8 1/2"							
	2' 8 1/2"	CPOAX153/4 26	CPOAX1826	CPOAX2026	CPOAX2426	CPOAX2626	CPOAX2826	CPOAX3026
	3' 0 1/2"							
	3' 0 1/2"	CPOAX153/4 28	CPOAX1828	CPOAX2028	CPOAX2428	CPOAX2628	CPOAX2828	CPOAX3028
	3' 4"							
	3' 4"	CPOAX153/4 30	CPOAX1830	CPOAX2030	CPOAX2430	CPOAX2630	CPOAX2830	CPOAX3030
	4' 0"							
	4' 0"	CPOAX153/4 34	CPOAX1834	CPOAX2034	CPOAX2434	CPOAX2634	CPOAX2834	CPOAX3034
	4' 6"							
	4' 6"	CPOAX153/4 40	CPOAX1840	CPOAX2040	CPOAX2440	CPOAX2640	CPOAX2840	CPOAX3040 †
	5' 0"							
	5' 0"	CPOAX153/4 46	CPOAX1846	CPOAX2046	CPOAX2446	CPOAX2646	CPOAX2846	CPOAX3046 †
	5' 6"							
	5' 6"	CPOAX153/4 50	CPOAX1850	CPOAX2050	CPOAX2450	CPOAX2650	CPOAX2850	CPOAX3050 †
	6' 0"							
	6' 0"	CPOAX153/4 56	CPOAX1856	CPOAX2056	CPOAX2456	CPOAX2656	CPOAX2856	CPOAX3056 †
		CPOAX153/4 60	CPOAX1860	CPOAX2060	CPOAX2460	CPOAX2660	CPOAX2860	CPOAX3060 †

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6'10-1/2" structural header height). Local codes may differ. Verify egress requirements with your local building code official.

Units ≤ 24" Actual Frame Width (AFW) will receive hinges only (no clip or friction arm).

Units > 24" AFW and ≤ 30" AFW receive clip only.

Units > 30" AFW receive (2) 14" friction arms.

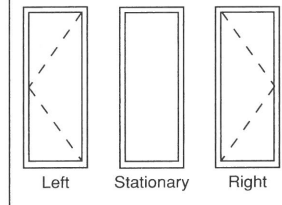
If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Vent Layout as Viewed From Exterior



FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary.

Joined Casement Combinations	2-Wide		3-Wide		4-Wide		5-Wide	
Single Unit Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width
1'-5 3/4"	3'-0"	2'-11 1/2"	4'-5 3/4"	4'-5 1/4"	5'-11 1/2"	5'-11"	7'-5 1/4"	7'-4 3/4"
1'-8"	3'-4 1/2"	3'-4"	5'-0 1/2"	5'-0"	6'-8 1/2"	6'-8"	8'-4 1/2"	8'-4"
2'-0"	4'-0 1/2"	4'-0"	6'-0 1/2"	6'-0"	8'-0 1/2"	8'-0"	10'-0 1/2"	10'-0"
2'-4"	4'-8 1/2"	4'-8"	7'-0 1/2"	7'-0"	9'-4 1/2"	9'-4"	11'-8 1/2"	11'-8"
2'-6"	5'-0 1/2"	5'-0"	7'-6 1/2"	7'-6"	10'-0 1/2"	10'-0"	12'-6 1/2"	12'-6"
2'-8"	5'-4 1/2"	5'-4"	8'-0 1/2"	8'-0"	10'-8 1/2"	10'-8"	13'-4 1/2"	13'-4"
3'-0"	6'-0 1/2"	6'-0"	9'-0 1/2"	9'-0"	12'-0 1/2"	12'-0"	15'-0 1/2"	15'-0"

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:

A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.

ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Casement



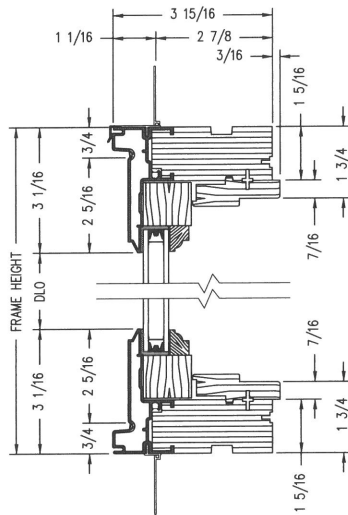
Vertical Section



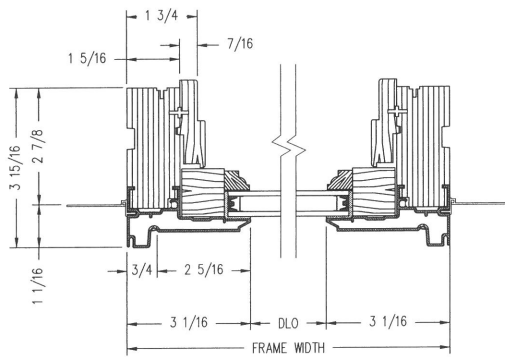
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Casement Windows

Direct-Set (1-Piece) Casement

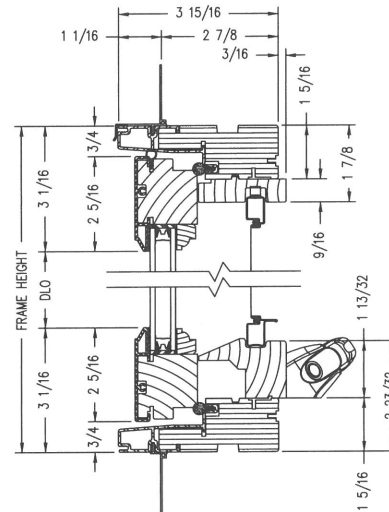


Vertical Section

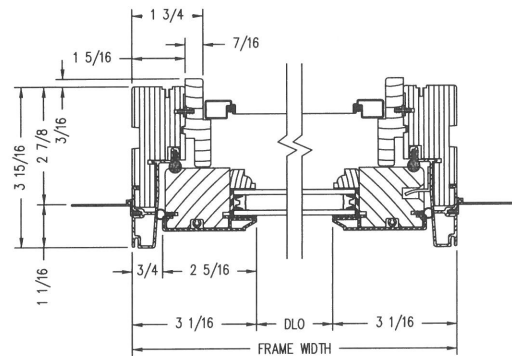


Horizontal Section

Arch Casement



Vertical Section

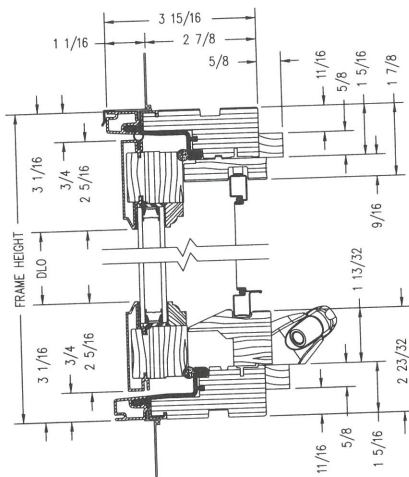


Horizontal Section

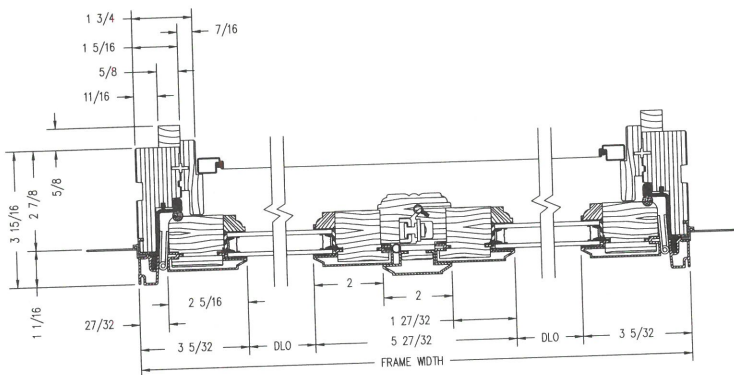
Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

French Casement Windows



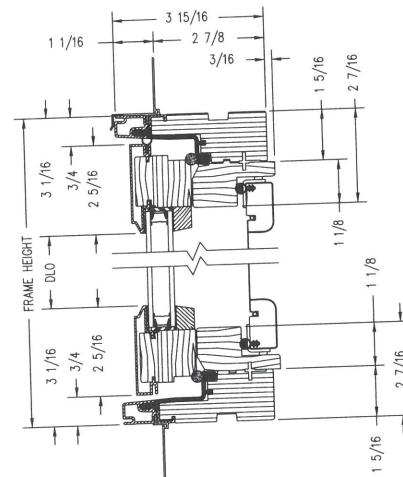
Vertical Section



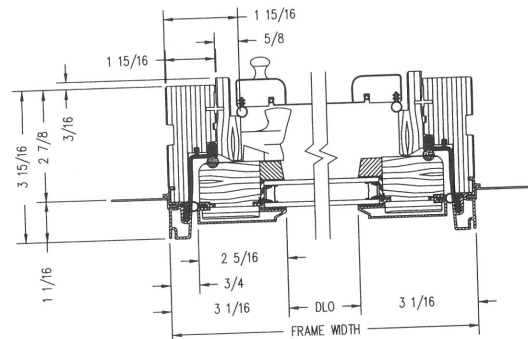
Horizontal Section

Shown with ovolo (colonial) glass stops.

Push Out Casement Windows



Vertical Section



Horizontal Section

Shown with contemporary glass stops.

AWNING WINDOWS

Used alone or as an accent window, E-Series awning windows add visual interest and ventilation. Plus, they are easy to clean from the inside, while still offering a weathertight seal for outstanding performance. They include stainless steel hardware with the operator located on the sill for a true awning style and feature the same sight lines as our casement window for design flexibility when creating large window combinations.

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Push Out Casement Window Overview	52
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Awning	54
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Custom sizing is available.





AWNING WINDOW

FEATURES

AWNING WINDOWS

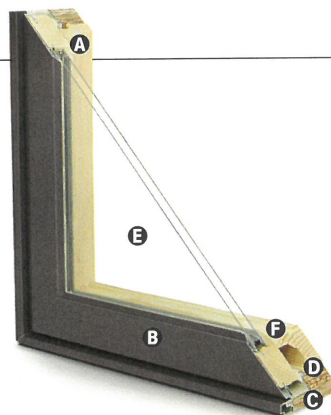
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options. Integral, butyl-backed corner keys provide a positive, tight seal.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges and metal installation clips are available.

C A Fibrex® material thermal barrier encompasses the interior perimeter of the frame and is a neutral beige color.



D A continuous perimeter bulb weatherstrip around the frame is positioned on the Fibrex material thermal barrier and provides solid surface contact with the sash.

A secondary bulb weatherstrip is applied on three sides of the sash into a stand-alone kerf on the aluminum extrusion. Available in white or optional black.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Equipped with a stainless steel gear operator, concealed hinges and hinge track.

Locks, handles and operator covers are available in 10 finishes and can be shipped separately closer to job completion.



Sash Lock

Concealed sash locks provide a positive lock. Stainless steel keepers resist corrosion.** Available in hardware finishes shown below.

HARDWARE OPTIONS



Operator Handle & Cover

Antique Brass | **Black**
Bright Chrome | Bronze
Gold | Oil Rubbed Bronze
Pewter | Polished Brass
Satin Chrome | White
Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

**Visit andersenwindows.com/warranty for details.

Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

AWNING WINDOWS

HARDWARE

Power Operator



Power operators are available in bronze, white, black or gold.

Window Opening Control Device Kit

An optional Window Opening Control Device Kit is available, which limits opening the sash to less than 4" when the window is first opened. Available in stone and white.

Construction Hardware



Construction locks and operator handles keep your permanent window hardware away from the construction process and possible damage yet allow operation of windows during construction.

SENSORS

VeriLock® Security Sensors

VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide.

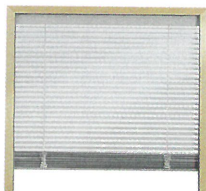
Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

See page 27 for Smart Home options.

PRIVACY OPTIONS

System 3 Blinds



A 5/8" aluminum slat blind is mounted to an extruded aluminum blind panel and applied to the window, creating a triple-glazed window boasting privacy and energy efficiency. Available in three colors. Blind panels are offered in white, tan, gold or an optional wood veneer to match your interior.

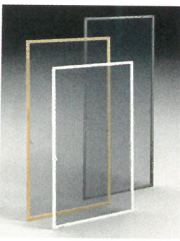
System 3 Shades

Pleated fabric shades are available in four colors to effortlessly and beautifully filter the light.

See page 25 for more information on our blinds and shades.

INSECT SCREENS

TruScene® Insect Screens

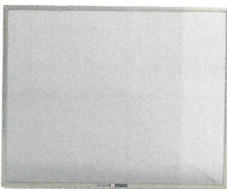


Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Retractable Insect Screens

Retractable insect screen available in wood-veneered frame options.

Conventional Insect Screens



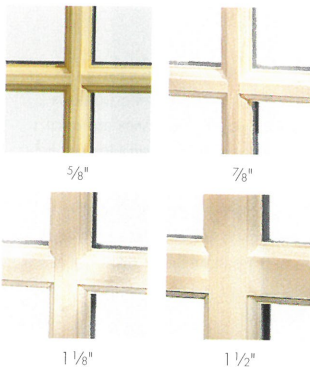
Charcoal fiberglass screen mesh fits into an aluminum frame in colors of bronze, white or gold as well as optional black. Aluminum screen mesh and wood-veneered insect screen also available.

See page 24 for more information on our insect screens.

GRILLES

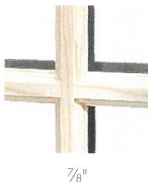
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



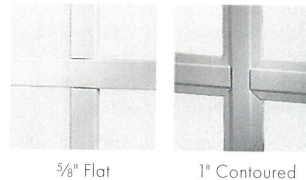
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

PUSH OUT AWNING WINDOW

FEATURES

PUSH OUT AWNING WINDOWS

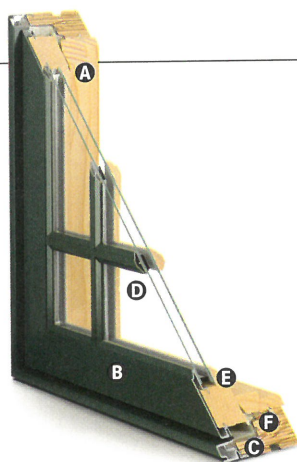
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges and metal installation clips are available.

C A Fibrex® material thermal barrier encompasses the interior perimeter of the frame and is a neutral beige color.



D A continuous perimeter bulb weatherstrip around the frame is positioned on the Fibrex material thermal barrier and provides solid surface contact with the sash.

A secondary bulb weatherstrip is applied on three sides of the sash. Available in white or optional black.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Manual lock system featuring lock handles allows for easy operation. Units under 40" high use a single lock, while units 40" and taller use dual locks. Lock handles are available in six finishes.

Equipped with a stainless steel 4-bar friction hinge.

HARDWARE OPTIONS

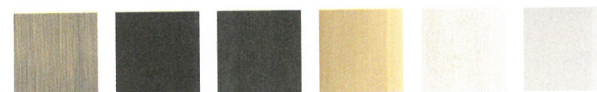


Lock Handle

Antique Brass | Black
Oil Rubbed Bronze
Polished Brass
Satin Chrome | White

Bold name denotes finish shown.

HARDWARE FINISHES



Antique Brass Black Oil Rubbed Bronze Polished Brass Satin Chrome White

Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

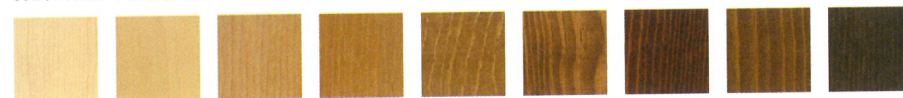
EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Pine Mixed Grain Douglas Fir Oak Maple Hickory Mahogany* Cherry Walnut Vertical Grain Douglas Fir Alder

FACTORY-FINISHED INTERIORS



Clear Coat Wheat Autumn Oak Golden Hickory Honey Cinnamon Russet Mocha Espresso

INTERIOR PAINTED OPTIONS



White Birch Bark Primed (for paint) Canvas Sandtone Terratone Forest Green Dark Bronze Dove Gray Prairie Grass Red Rock Cocoa Bean Black Anodized Silver

Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

PUSH OUT AWNING WINDOWS

SENSORS

Open/Closed Sensors

Wireless open/closed sensors are available in four colors. See page 27 for details.

INSECT SCREENS

Hinged Insect Screens



Insect Screen Pull

Hinged insect screen opens to the interior, providing access to the lock handle. Choose from charcoal fiberglass or aluminum screen mesh. Available in wood-veneered options. Insect screen pulls are available in antique brass, black, oil rubbed bronze, polished brass, satin chrome and white.

Retractable Insect Screens

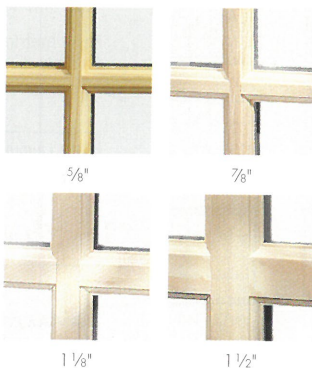
Retractable insect screen available in wood-veneered frame options. Extension jambs required for push out awning windows with retractable insect screens.

See page 24 for more information on our insect screen options.

GRILLES

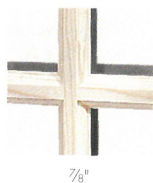
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ ", or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



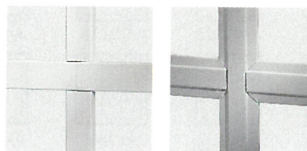
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ ", or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in $\frac{5}{8}$ " flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



$\frac{5}{8}$ " Flat

1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a $\frac{7}{8}$ " width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



$\frac{7}{8}$ "

See page 22 for more information on grilles.

*Oil rubbed bronze is a "living" finish that will change with time and use.

AWNING WINDOWS

Awning Window Sizes

R.O. F.S.	2' 0 1/2"						
	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 4"	4' 0"
1' 8"							
2' 0"							
2' 6 1/2"							
3' 0"							
3' 4 1/2"							
4' 0 1/2"							
4' 0"							

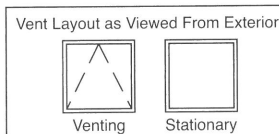
NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.



FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary.

PUSH OUT AWNING

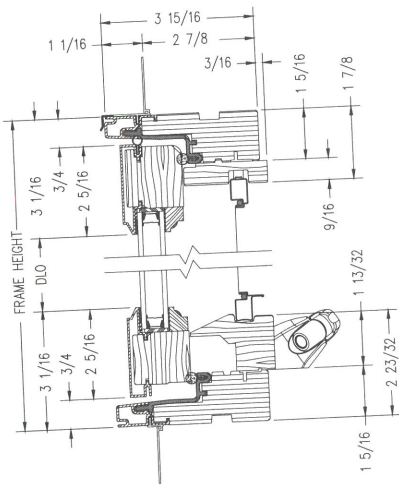
Units ≥ 36" Actual Frame Height receive (2) friction stays.

Push Out Awning Window Sizes

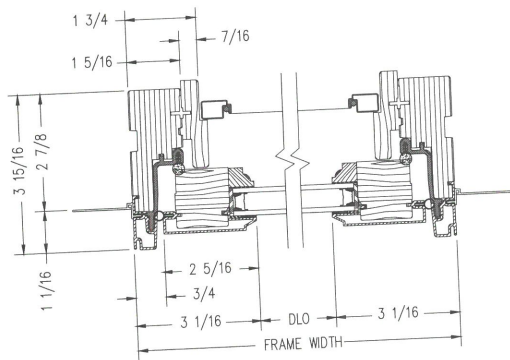
R.O. F.S.	2' 0 1/2"						
	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 4"	4' 0"
1' 8"							
2' 0"							
2' 6 1/2"							
3' 0"							
3' 4 1/2"							
4' 0 1/2"							
4' 0"							

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Awning Windows



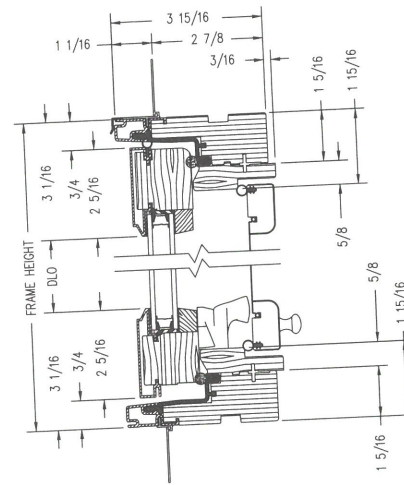
Vertical Section



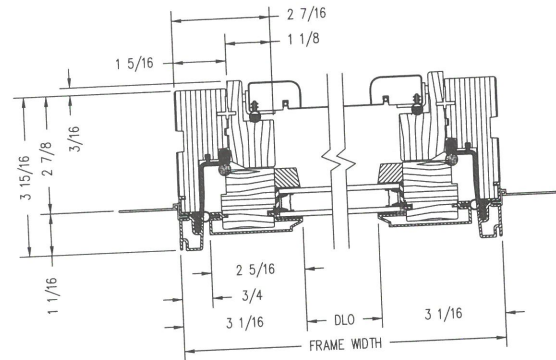
Horizontal Section

Shown with ovolo (colonial) glass stops.

Push Out Awning Windows





Vertical Section





Horizontal Section

Shown with contemporary glass stops.

E-Series Awning
Windows

Joined Awning Width Combinations	2-Wide 		3-Wide 	
	Rough Opening Width	Frame Width	Rough Opening Width	Frame Width
2'-0"	4'-0 1/2"	4'-0"	6'-0 1/2"	6'-0"
2'-4"	4'-8 1/2"	4'-8"	7'-0 1/2"	7'-0"
2'-6"	5'-0 1/2"	5'-0"	7'-6 1/2"	7'-6"
2'-8"	5'-4 1/2"	5'-4"	8'-0 1/2"	8'-0"
3'-0"	6'-0 1/2"	6'-0"	9'-0 1/2"	9'-0"
3'-4"	6'-8 1/2"	6'-8"	10'-0 1/2"	10'-0"
4'-0"	8'-0 1/2"	8'-0"	12'-0 1/2"	12'-0"

Joined Awning Height Combinations	2-High 		3-High 	
	Rough Opening Height	Frame Height	Rough Opening Height	Frame Height
1'-8"	3'-4 1/2"	3'-4"	5'-0 1/2"	5'-0"
2'-0"	4'-0 1/2"	4'-0"	6'-0 1/2"	6'-0"
2'-6"	5'-0 1/2"	5'-0"	7'-6 1/2"	7'-6"
3'-0"	6'-0 1/2"	6'-0"	9'-0 1/2"	9'-0"
3'-4"	6'-8 1/2"	6'-8"	10'-0 1/2"	10'-0"
4'-0"	8'-0 1/2"	8'-0"	12'-0 1/2"	12'-0"

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION.
WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM.
CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

DOUBLE-HUNG WINDOWS

A classic beauty, double-hung windows offer a sleek design with ventilation options from the top, bottom or both. Add a TruScene® insect screen to let the outside in, maximizing your view, not limiting it. E-Series double-hung windows give you the option to select aluminum or wood jamb liner inserts for added visual appeal and include flush-mounted hardware that allows for easy tilt-in operation.

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Custom sizing is available.



DOUBLE-HUNG WINDOW

FEATURES

DOUBLE-HUNG WINDOWS

FRAME & SASH

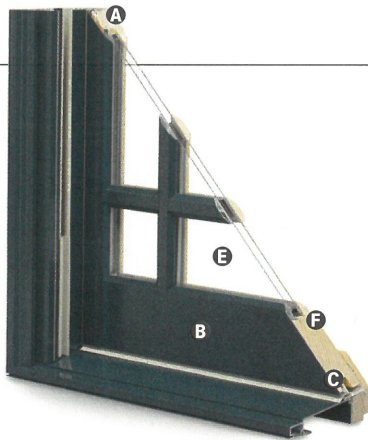
A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

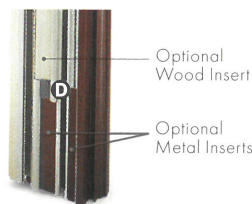
Optional vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.

C Compression bulb weatherstrip is applied on the bottom sash, head jamb, at the meeting rail and on side jambs for a maximum weather seal.

Jamb liners encase balancer assemblies that allow each sash to be tilted 90° inward from a bottom pivot and stay securely in place for washing.



D Double-hung jamb liners incorporate synthetic interior and exterior inserts or optional painted aluminum exterior and wood-veneered interior inserts.



GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Sash lock/tilt mechanisms and keepers give a slim, more traditional design and allow opening and tilting of the window in one operation. Tilting the sash from the inside for cleaning is effortless.

Optional surface mount sash lifts allow for easy operation. Units less than 3' wide use one lift. Units 3' wide and greater use two lifts.

HARDWARE OPTIONS



Lock



Sash Lift

Antique Brass | Black | **Bright Chrome** | Bronze | Gold
Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

Windows with VeriLock® sensors use a different sash lock. See the next page for details.
Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.
Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.



ACCESSORIES Sold Separately

DOUBLE-HUNG WINDOWS

HARDWARE

Window Opening Control Device Kit

An optional Window Opening Control Device Kit is available, which limits opening the sash to less than 4" when the window is first opened. Available in stone and white.

SENSORS

VeriLock® Security Sensors



VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide. Available in all hardware finishes.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

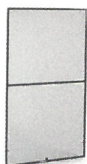
See page 27 for Smart Home options.

INSECT SCREENS

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Conventional Insect Screens



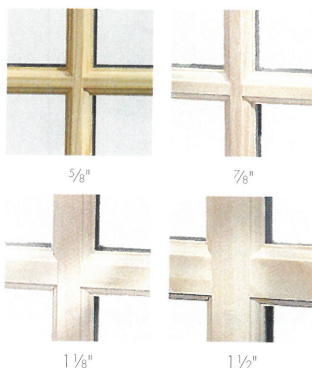
Charcoal fiberglass screen mesh fits into an aluminum frame in all 50 exterior colors and seven anodized finishes. Available in half or full insect screens. Aluminum screen mesh is available as an option.

See page 24 for more information on our insect screens.

GRILLES

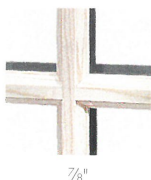
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



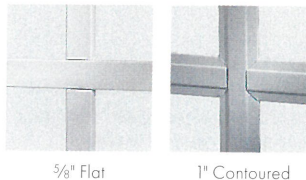
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

DOUBLE-HUNG INSERT WINDOW

FEATURES

DOUBLE-HUNG INSERT WINDOWS

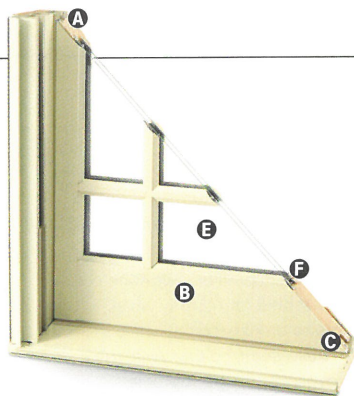
Double-hung insert window fits into an existing window frame making installation a breeze. The appearance of the interior and exterior of the home are maintained because the existing frame, wall coverings and trim work stay completely intact.

FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

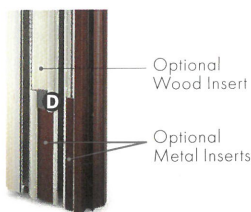
B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

C Compression bulb weatherstrip is applied on the bottom sash, head jamb, at the meeting rail and on side jambs for a maximum weather seal.



Jamb liners encase balancer assemblies that allow each sash to be tilted 90° inward from a bottom pivot and stay securely in place for washing.

D Basic jamb liners are available in beige or white and are made of synthetic material. Optional painted aluminum exterior inserts and wood-veneered interior inserts also available.



SILL

8 degrees is the standard slope. Filler block is used on existing window sill angles of less than 8 degrees.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE OPTIONS



Lock



Sash Lift

Antique Brass | Black | **Bright Chrome** | Bronze | Gold
Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

Windows with VeriLock® sensors use a different sash lock. See the next page for details. Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

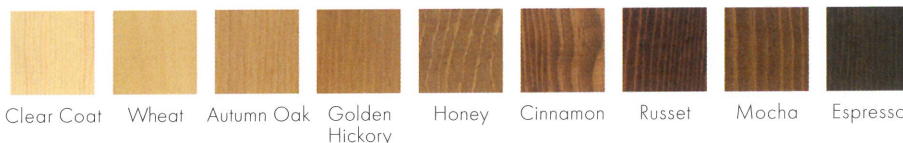
EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

HARDWARE

Sash lock/tilt mechanisms and keepers give a slim, more traditional design and allow opening and tilting of the window in one operation. Tilting the sash from the inside for cleaning is effortless.

Surface mount sash lifts allow for easy operation. Units less than 3' wide use one lift. Units 3' wide and greater use two lifts.

MEASURING GUIDELINES

Measuring guidelines for double-hung insert and picture insert windows can be found on andersenwindows.com/measure.

ACCESSORIES Sold Separately

DOUBLE-HUNG INSERT WINDOWS

HARDWARE

Window Opening Control Device Kit

An optional Window Opening Control Device Kit is available, which limits opening the sash to less than 4" when the window is first opened. Available in stone and white.

SENSORS

VeriLock® Security Sensors



VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide. Available in all hardware finishes.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

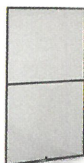
See page 27 for Smart Home options.

INSECT SCREENS

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Conventional Insect Screens



Charcoal fiberglass screen mesh fits into an aluminum frame in all 50 exterior colors and seven anodized finishes. Available in half or full insect screens. Aluminum screen mesh is available as an option.

See page 24 for more information on our insect screens.

GRILLES

Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



5/8"



7/8"



1 1/8"



1 1/2"

Simulated Divided Light

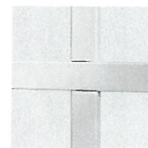
Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



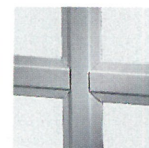
7/8"

Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



5/8" Flat



1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



7/8"

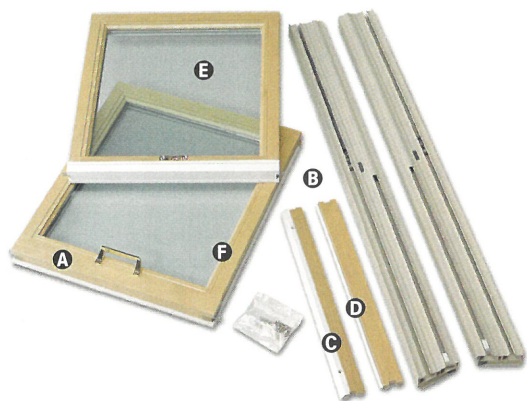
See page 22 for more information on grilles.

*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

DOUBLE-HUNG SASH REPLACEMENT KIT

FEATURES

DOUBLE-HUNG SASH REPLACEMENT KITS



Double-hung sash replacement kits are complete with window sash, locking hardware and sash lifts, compression jamb liners and balancer systems, sill filler, head parting stop and installation hardware. Each kit is built to your exact measurements.

The kits were designed to replace older sash with a new energy-efficient sash without removing the trim and the window frame. The sash replacement will fit a double-hung window with a jamb pocket depth of 3 1/4" or larger.

Kits are also available in a picture window design. The sash depth is 1 1/2". Picture window sash replacement kit consists of one sash and one sill filler.

SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

C The sash replacement kit utilizes a foam weatherstrip on the bottom of the lower sash that forms a weather-tight seal against the sill filler when closed.

D Hollow bulb weatherstrip forms a compression seal at the meeting rails and at the head.

Each kit utilizes a two-piece foam-backed jamb liner and a block and tackle balancer system. The sash tilt inward for easy cleaning. Beige or white jamb liners are available and are cut to the sill slope specified at time of order.

HARDWARE OPTIONS



Lock



Sash Lift

Black | Bronze | Gold | Polished Brass | White

Bold name denotes finish shown.

HARDWARE FINISHES



Black



Bronze



Gold



Polished Brass



White

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Pine



Mixed Grain Douglas Fir



Oak



Maple



Hickory



Mahogany*



Cherry



Walnut



Vertical Grain Douglas Fir



Alder

FACTORY-FINISHED INTERIORS



Clear Coat



Wheat



Autumn Oak



Golden Hickory



Honey



Cinnamon



Russet



Mocha



Espresso

INTERIOR PAINTED OPTIONS



White



Birch Bark



Primed (for paint)



Canvas



Sandtone



Terratone



Forest Green



Dark Bronze



Dove Gray



Prairie Grass



Red Rock



Cocoa Bean



Black



Anodized Silver

Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

GLASS

E High-Performance Low-E4® glass with a low-conductivity spacer. Tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

F Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Sash replacement kits under 36" in width will receive one lock and one sash lift. Kits 36" to 48" in width will receive two locks and two sash lifts. Kits 48" and wider will require three locks and two sash lifts.

MEASURING GUIDELINES

Measuring guidelines for double-hung and picture sash replacement kits can be found on andersenwindows.com/measure.

ACCESSORIES Sold Separately

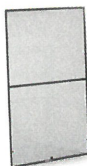
DOUBLE-HUNG SASH REPLACEMENT KITS

INSECT SCREENS

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Conventional Insect Screens



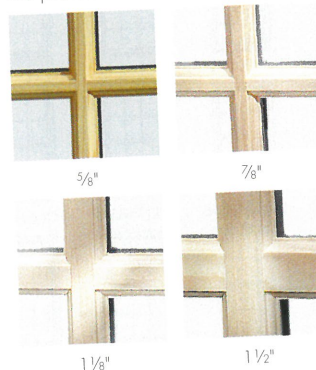
Charcoal fiberglass screen mesh fits into an aluminum frame in all 50 exterior colors and seven anodized finishes. Available in half or full insect screens. Aluminum screen mesh is available as an option.

See page 24 for more information on our insect screens.

GRILLES

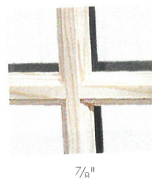
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



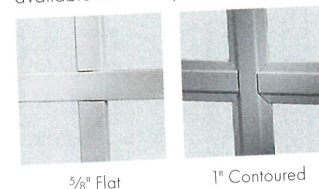
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

















































































Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



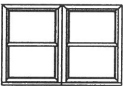
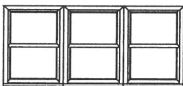
See page 22 for more information on grilles.

DOUBLE-HUNG WINDOWS

Double-Hung Window Sizes

		1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	3' 8 1/2"	4' 0 1/2"
		1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 8"	4' 0"
R.O. F.S.	3' 0 1/2"										
	3' 4 1/2"										
4' 0 1/2"	4' 0"										
	4' 6 1/2"										
4' 9 1/2"	4' 6"										
	4' 9"										
5' 0 1/2"	5' 0"										
	5' 1 1/2"										
		TCLDH1830	TCLDH2030	TCLDH2430	TCLDH2630	TCLDH2830	TCLDH3030	TCLDH3230	TCLDH3430	TCLDH3830	
		TCLDH1834	TCLDH2034	TCLDH2434	TCLDH2634	TCLDH2834	TCLDH3034	TCLDH3234	TCLDH3434	TCLDH3834	
		TCLDH1840	TCLDH2040	TCLDH2440	TCLDH2640	TCLDH2840	TCLDH3040	TCLDH3240	TCLDH3440	TCLDH3840	TCLDH4040
		TCLDH1846	TCLDH2046	TCLDH2446	TCLDH2646	TCLDH2846	TCLDH3046	TCLDH3246	TCLDH3446	TCLDH3846	TCLDH4046
		TCLDH1849	TCLDH2049	TCLDH2449	TCLDH2649	TCLDH2849	TCLDH3049	TCLDH3249	TCLDH3449	TCLDH3849	TCLDH4049
		TCLDH1850	TCLDH2050	TCLDH2450	TCLDH2650	TCLDH2850	TCLDH3050	TCLDH3250	TCLDH3450	TCLDH3850	TCLDH4050
		TCLDH1851	TCLDH2051	TCLDH2451	TCLDH2651	TCLDH2851	TCLDH3051	TCLDH3251 †	TCLDH3451 †	TCLDH3851 †	TCLDH4051 †

Joined Double-Hung Combinations

2-Wide			3-Wide		
					
Single Unit Frame Width	Rough Opening Width	Frame Width	Single Unit Frame Width	Rough Opening Width	Frame Width
1'-8"	3'-4 1/2"	3'-4"	1'-8"	5'-0 1/2"	5'-0"
2'-0"	4'-0 1/2"	4'-0"	2'-0"	6'-0 1/2"	6'-0"
2'-4"	4'-8 1/2"	4'-8"	2'-4"	7'-0 1/2"	7'-0"
2'-6"	5'-0 1/2"	5'-0"	2'-6"	7'-6 1/2"	7'-6"
2'-8"	5'-4 1/2"	5'-4"	2'-8"	8'-0 1/2"	8'-0"
3'-0"	6'-0 1/2"	6'-0"	3'-0"	9'-0 1/2"	9'-0"
3'-2"	6'-4 1/2"	6'-4"	3'-2"	9'-6 1/2"	9'-6"
3'-4"	6'-8 1/2"	6'-8"	3'-4"	10'-0 1/2"	10'-0"
3'-8"	7'-4 1/2"	7'-4"	3'-8"	11'-0 1/2"	11'-0"
4'-0"	8'-0 1/2"	8'-0"	4'-0"	12'-0 1/2"	12'-0"

NOTES

† These units meet or exceed the following dimensions:
Clear Opening Area 5.7 sq. ft., Clear Opening Width 20",
Clear Opening Height 24" and 44" maximum floor to sill
height (with standard 6' 10-1/2" structural header height).
See your local code official for requirements in your area.

Units may be ordered with sash lifts if desired. Units 3' 0"
and wider will use two sash lifts.

If glass is positioned within 18" of the finished floor, safety/
tempered glass may be required. Local codes may differ.
Verify tempered glass requirements with your local building
code official.

Use structural joining material when necessary or required
by code.

The light patterns illustrated apply to rectangular removable
interior wood grilles, Full Divided Light, Simulated Divided
Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-
Between-the-Glass. All removable interior wood grilles will be
installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in
inches by 25.4.

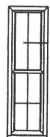
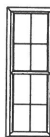






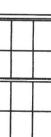
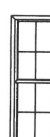
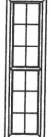
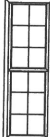






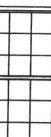
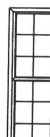
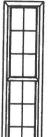
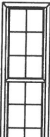
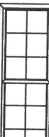







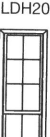



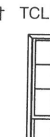









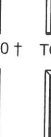

FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal
to the sum of the individual unit frame dimensions plus
joining material dimension(s).

The overall rough opening (both width and height) is equal to
the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Double-Hung Window Sizes

R.O. F.S.	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	3' 8 1/2"	4' 0 1/2"
	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 8"	4' 0"
5' 6 1/2"										
5' 6"	TCLDH1856	TCLDH2056	TCLDH2456	TCLDH2656	TCLDH2856	TCLDH3056 †	TCLDH3256 †	TCLDH3456 †	TCLDH3856 †	TCLDH4056 †
6' 0 1/2"										
6' 0"	TCLDH1860	TCLDH2060	TCLDH2460	TCLDH2660	TCLDH2860 †	TCLDH3060 †	TCLDH3260 †	TCLDH3460 †	TCLDH3860 †	TCLDH4060 †
6' 6 1/2"										
6' 6"	TCLDH1866	TCLDH2066	TCLDH2466	TCLDH2666 †	TCLDH2866 †	TCLDH3066 †	TCLDH3266 †	TCLDH3466 †	TCLDH3866 †	
7' 0 1/2"										
7' 0"	TCLDH1870	TCLDH2070	TCLDH2470 †	TCLDH2670 †	TCLDH2870 †	TCLDH3070 †	TCLDH3270 †	TCLDH3470 †		
7' 6 1/2"										
7' 6"	TCLDH1876	TCLDH2076	TCLDH2476 †	TCLDH2676 †	TCLDH2876 †	TCLDH3076 †	TCLDH3276 †			

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6' 10-1/2" structural header height). See your local code official for requirements in your area.

Units may be ordered with sash lifts if desired. Units 3' 0" and wider will use two sash lifts.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

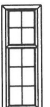







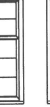





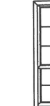



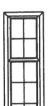



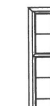
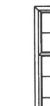


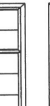





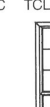
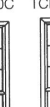

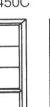

















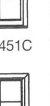














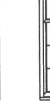





















The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

DOUBLE-HUNG WINDOWS

Cottage & Reverse Cottage Double-Hung Window Sizes

	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	3' 8 1/2"
	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 8"
4' 6 1/2"									
	TCLDH1846C	TCLDH2046C	TCLDH2446C	TCLDH2646C	TCLDH2846C	TCLDH3046C	TCLDH3246C	TCLDH3446C	TCLDH3846C
4' 6"									
	TCLDH1846RC	TCLDH2046RC	TCLDH2446RC	TCLDH2646RC	TCLDH2846RC	TCLDH3046RC	TCLDH3246RC	TCLDH3446RC	TCLDH3846RC
5' 0 1/2"									
	TCLDH1850C	TCLDH2050C	TCLDH2450C	TCLDH2650C	TCLDH2850C	TCLDH3050C	TCLDH3250C	TCLDH3450C	TCLDH3850C
5' 0"									
	TCLDH1850RC	TCLDH2050RC	TCLDH2450RC	TCLDH2650RC	TCLDH2850RC	TCLDH3050RC	TCLDH3250RC	TCLDH3450RC	TCLDH3850RC
5' 1 1/2"									
	TCLDH1851C	TCLDH2051C	TCLDH2451C	TCLDH2651C	TCLDH2851C	TCLDH3051C	TCLDH3251C	TCLDH3451C	TCLDH3851C
5' 1"									
	TCLDH1851RC	TCLDH2051RC	TCLDH2451RC	TCLDH2651RC	TCLDH2851RC	TCLDH3051RC	TCLDH3251RC	TCLDH3451RC	TCLDH3851RC
5' 6 1/2"									
	TCLDH1856C	TCLDH2056C	TCLDH2456C	TCLDH2656C	TCLDH2856C	TCLDH3056C	TCLDH3256C	TCLDH3456C	TCLDH3856C
5' 6"									
	TCLDH1856RC	TCLDH2056RC	TCLDH2456RC	TCLDH2656RC	TCLDH2856RC	TCLDH3056RC	TCLDH3256RC	TCLDH3456RC	TCLDH3856RC
6' 0 1/2"									
	TCLDH1860C	TCLDH2060C	TCLDH2460C	TCLDH2660C	TCLDH2860C	TCLDH3060C	TCLDH3260C	TCLDH3460C	TCLDH3860C
6' 0"									
	TCLDH1860RC	TCLDH2060RC	TCLDH2460RC	TCLDH2660RC	TCLDH2860RC	TCLDH3060RC	TCLDH3260RC	TCLDH3460RC	TCLDH3860RC

NOTES

Units may be ordered with sash lifts if desired. Units 3' 0" and wider will use two sash lifts.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
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Double-Hung Picture Window Sizes

R.O. F.S.	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	4' 0 1/2"	5' 0 1/2"
	3' 0"	3' 2"	3' 4"	4' 0"	5' 0"
4' 0 1/2"					
4' 0"	TDHP3040	TDHP3240	TDHP3440	TDHP4040	TDHP5040
4' 6 1/2"					
4' 6"	TDHP3046	TDHP3246	TDHP3446	TDHP4046	TDHP5046
5' 0 1/2"					
5' 0"	TDHP3050	TDHP3250	TDHP3450	TDHP4050	TDHP5050
5' 1 1/2"					
5' 1"	TDHP3051	TDHP3251	TDHP3451	TDHP4051	TDHP5051
5' 6 1/2"					
5' 6"	TDHP3056	TDHP3256	TDHP3456	TDHP4056	TDHP5056
6' 0 1/2"					
6' 0"	TDHP3060	TDHP3260	TDHP3460	TDHP4060	TDHP5060
6' 6 1/2"					
6' 6"	TDHP3066	TDHP3266	TDHP3466	TDHP4066	TDHP5066

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

















































The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Double-Hung Transom Window Sizes

R.O. F.S.	1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	3' 8 1/2"	4' 0 1/2"	5' 0 1/2"
	1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 8"	4' 0"	5' 0"
1' 2"											
1' 4"	TDHT1812	TDHT2012	TDHT2412	TDHT2612	TDHT2812	TDHT3012	TDHT3212	TDHT3412	TDHT3812	TDHT4012	TDHT5012
1' 6"											
1' 8"	TDHT1814	TDHT2014	TDHT2414	TDHT2614	TDHT2814	TDHT3014	TDHT3214	TDHT3414	TDHT3814	TDHT4014	TDHT5014
1' 10"											
2' 0"	TDHT1816	TDHT2016	TDHT2416	TDHT2616	TDHT2816	TDHT3016	TDHT3216	TDHT3416	TDHT3816	TDHT4016	TDHT5016
2' 2"											
2' 4"	TDHT1818	TDHT2018	TDHT2418	TDHT2618	TDHT2818	TDHT3018	TDHT3218	TDHT3418	TDHT3818	TDHT4018	TDHT5018
2' 6"											
2' 8"	TDHT1820	TDHT2020	TDHT2420	TDHT2620	TDHT2820	TDHT3020	TDHT3220	TDHT3420	TDHT3820	TDHT4020	TDHT5020

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
 A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
 ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Arch Single-Hung Window Sizes

		2'-0 1/2"	4'-0 1/2"	2'-4 1/2"	4'-8 1/2"	2'-6 1/2"	5'-0 1/2"
		2'-0"	4'-0"	2'-4"	4'-8"	2'-6"	5'-0"
R.O.	F.S.	3'-0" RAD	6'-0" RAD	3'-0" RAD	6'-0" RAD	3'-0" RAD	6'-0" RAD
3'-0 1/2"	3'-0"						
		TCLRDH2030	TCLRDH2030-2	TCLRDH2430	TCLRDH2430-2	TCLRDH2630	TCLRDH2630-2
3'-4 1/2"	3'-4"						
		TCLRDH2034	TCLRDH2034-2	TCLRDH2434	TCLRDH2434-2	TCLRDH2634	TCLRDH2634-2
4'-0 1/2"	4'-0"						
		TCLRDH2040	TCLRDH2040-2	TCLRDH2440	TCLRDH2440-2	TCLRDH2640	TCLRDH2640-2
4'-6 1/2"	4'-6"						
		TCLRDH2046	TCLRDH2046-2	TCLRDH2446	TCLRDH2446-2	TCLRDH2646	TCLRDH2646-2
5'-0 1/2"	5'-0"						
		TCLRDH2050	TCLRDH2050-2	TCLRDH2450	TCLRDH2450-2	TCLRDH2650	TCLRDH2650-2
5'-1 1/2"	5'-1"						
		TCLRDH2051	TCLRDH2051-2	TCLRDH2451	TCLRDH2451-2	TCLRDH2651	TCLRDH2651-2
5'-6 1/2"	5'-6"						
		TCLRDH2056	TCLRDH2056-2	TCLRDH2456	TCLRDH2456-2	TCLRDH2656	TCLRDH2656-2
6'-0 1/2"	6'-0"						
		TCLRDH2060	TCLRDH2060-2	TCLRDH2460	TCLRDH2460-2	TCLRDH2660	TCLRDH2660-2

NOTES

Units may be ordered with sash lifts if desired. Units 3'0" and wider will use two sash lifts.

Bottom sash operates up and down and tilts inward for cleaning. Top sash is fixed.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.
















































FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
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Arch Single-Hung Window Sizes

R.O. F.S.	2'-8 1/2"	5'-4 1/2"	3'-0 1/2"	6'-0 1/2"	3'-2 1/2"	6'-4 1/2"
	2'-8"	5'-4"	3'-0"	6'-0"	3'-2"	6'-4"
3'-0 1/2"	3'-0" RAD  TCLRDH2830	6'-0" RAD  TCLRDH2830-2	3'-0" RAD  TCLRDH3030	6'-0" RAD  TCLRDH3030-2	3'-0" RAD  TCLRDH3230	6'-0" RAD  TCLRDH3230-2
3'-4 1/2"	 TCLRDH2834	 TCLRDH2834-2	 TCLRDH3034	 TCLRDH3034-2	 TCLRDH3234	
4'-0 1/2"	 TCLRDH2840	 TCLRDH2840-2	 TCLRDH3040	 TCLRDH3040-2	 TCLRDH3240	 TCLRDH3240-2
4'-6 1/2"	 TCLRDH2846	 TCLRDH2846-2	 TCLRDH3046	 TCLRDH3046-2	 TCLRDH3246	 TCLRDH3246-2
5'-0 1/2"	 TCLRDH2850	 TCLRDH2850-2	 TCLRDH3050	 TCLRDH3050-2	 TCLRDH3250	 TCLRDH3250-2
5'-1 1/2"	 TCLRDH2851	 TCLRDH2851-2	 TCLRDH3051	 TCLRDH3051-2	 TCLRDH3251	 TCLRDH3251-2
5'-6 1/2"	 TCLRDH2856	 TCLRDH2856-2	 TCLRDH3056	 TCLRDH3056-2	 TCLRDH3256	 TCLRDH3256-2
6'-0 1/2"	 TCLRDH2860	 TCLRDH2860-2	 TCLRDH3060	 TCLRDH3060-2	 TCLRDH3260	 TCLRDH3260-2

E-Series Double-Hung
Windows

NOTES

Units may be ordered with sash lifts if desired. Units 3'0" and wider will use two sash lifts.

Bottom sash operates up and down and tilts inward for cleaning. Top sash is fixed.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

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For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

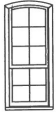
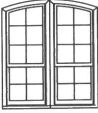


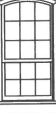

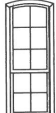
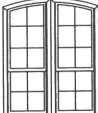

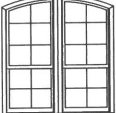
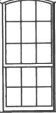
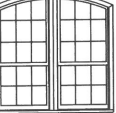

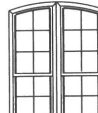

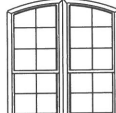

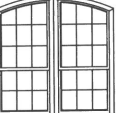

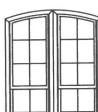




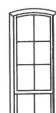
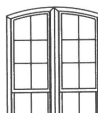
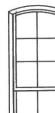


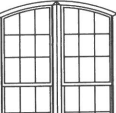
The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
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DOUBLE-HUNG WINDOWS

Arch Reverse Cottage Single-Hung Window Sizes

	2'-0" ¹ / ₂ "		4'-0" ¹ / ₂ "		2'-4" ¹ / ₂ "		4'-8" ¹ / ₂ "		2'-6" ¹ / ₂ "		5'-0" ¹ / ₂ "	
	2'-0"		4'-0"		2'-4"		4'-8"		2'-6"		5'-0"	
HO FS	3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD		3'-0" RAD		6'-0" RAD	
4'-6" ¹ / ₂ "												
4'-6"	TCLRDH2046RC		TCLRDH2046-2RC		TCLRDH2446RC		TCLRDH2446-2RC		TCLRDH2646RC		TCLRDH2646-2RC	
5'-0" ¹ / ₂ "												
5'-0"	TCLRDH2050RC		TCLRDH2050-2RC		TCLRDH2450RC		TCLRDH2450-2RC		TCLRDH2650RC		TCLRDH2650-2RC	
5'-1" ¹ / ₂ "												
5'-1"	TCLRDH2051RC		TCLRDH2051-2RC		TCLRDH2451RC		TCLRDH2451-2RC		TCLRDH2651RC		TCLRDH2651-2RC	
5'-6" ¹ / ₂ "												
5'-6"	TCLRDH2056RC		TCLRDH2056-2RC		TCLRDH2456RC		TCLRDH2456-2RC		TCLRDH2656RC		TCLRDH2656-2RC	
6'-0" ¹ / ₂ "												
6'-0"	TCLRDH2060RC		TCLRDH2060-2RC		TCLRDH2460RC		TCLRDH2460-2RC		TCLRDH2660RC		TCLRDH2660-2RC	

NOTES

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Bottom sash operates up and down and tilts inward for cleaning. Top sash is fixed.

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For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

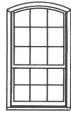
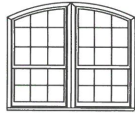
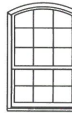
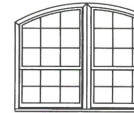

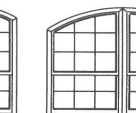
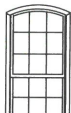
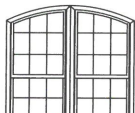
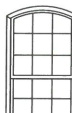
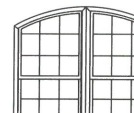
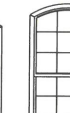
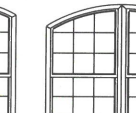





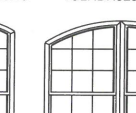

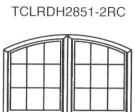










FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

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ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Arch Reverse Cottage Single-Hung Window Sizes

R.O. F.S.	2'-8 1/2"	5'-4 1/2"	3'-0 1/2"	6'-0 1/2"	3'-2 1/2"	6'-4 1/2"
	2'-8"	5'-4"	3'-0"	6'-0"	3'-2"	6'-4"
4'-6 1/2"	3'-0" RAD	6'-0" RAD	3'-0" RAD	6'-0" RAD	3'-0" RAD	6'-0" RAD
4'-6"						
	TCLRDH2846RC	TCLRDH2846-2RC	TCLRDH3046RC	TCLRDH3046-2RC	TCLRDH3246RC	TCLRDH3246-2RC
5'-0 1/2"						
5'-0"	TCLRDH2850RC	TCLRDH2850-2RC	TCLRDH3050RC	TCLRDH3050-2RC	TCLRDH3250RC	TCLRDH3250-2RC
5'-1 1/2"						
5'-1"	TCLRDH2851RC	TCLRDH2851-2RC	TCLRDH3051RC	TCLRDH3051-2RC	TCLRDH3251RC	TCLRDH3251-2RC
5'-6 1/2"						
5'-6"	TCLRDH2856RC	TCLRDH2856-2RC	TCLRDH3056RC	TCLRDH3056-2RC	TCLRDH3256RC	TCLRDH3256-2RC
6'-0 1/2"						
6'-0"	TCLRDH2860RC	TCLRDH2860-2RC	TCLRDH3060RC	TCLRDH3060-2RC	TCLRDH3260RC	TCLRDH3260-2RC

NOTES

Units may be ordered with sash lifts if desired. Units 3' 0" and wider will use two sash lifts.

Bottom sash operates up and down and tilts inward for cleaning. Top sash is fixed.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.
























































For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION WINDOWS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

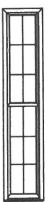

















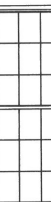

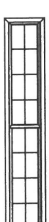
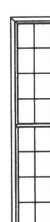





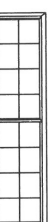
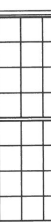


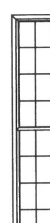

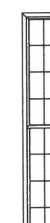



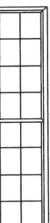

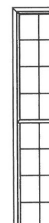








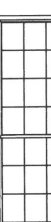

Double-Hung Direct-Set Transom Window Sizes

R.O. F.S.	1'-8 1/2"	2'-0 1/2"	2'-4 1/2"	2'-6 1/2"	2'-8 1/2"	3'-0 1/2"	3'-2 1/2"	3'-4 1/2"	3'-8 1/2"	4'-0 1/2"	5'-0 1/2"
	1'-8"	2'-0"	2'-4"	2'-6"	2'-8"	3'-0"	3'-2"	3'-4"	3'-8"	4'-0"	5'-0"
1'-2"											
	TDHT1812	TDHT2012	TDHT2412	TDHT2612	TDHT2812	TDHT3012	TDHT3212	TDHT3412	TDHT3812	TDHT4012	TDHT5012
1'-4"											
	TDHT1814	TDHT2014	TDHT2414	TDHT2614	TDHT2814	TDHT3014	TDHT3214	TDHT3414	TDHT3814	TDHT4014	TDHT5014
1'-6"											
	TDHT1816	TDHT2016	TDHT2416	TDHT2616	TDHT2816	TDHT3016	TDHT3216	TDHT3416	TDHT3816	TDHT4016	TDHT5016
1'-8"											
	TDHT1818	TDHT2018	TDHT2418	TDHT2618	TDHT2818	TDHT3018	TDHT3218	TDHT3418	TDHT3818	TDHT4018	TDHT5018
2'-0"											
	TDHT1820	TDHT2020	TDHT2420	TDHT2620	TDHT2820	TDHT3020	TDHT3220	TDHT3420	TDHT3820	TDHT4020	TDHT5020

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DOUBLE-HUNG WINDOWS

Monumental Single-Hung Window Sizes

		1' 8 1/2"	2' 0 1/2"	2' 4 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	3' 4 1/2"	3' 8 1/2"	4' 0 1/2"
		1' 8"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 2"	3' 4"	3' 8"	4' 0"
R.O. F.S.	8' 0 1/2"										
	8' 0"	TCLMDH1880	TCLMDH2080	TCLMDH2480	TCLMDH2680	TCLMDH2880	TCLMDH3080†	TCLMDH3280†	TCLMDH3480†	TCLMDH3880†	TCLMDH4080†
8' 6 1/2"	8' 6"										
	8' 6"	TCLMDH1886	TCLMDH2086	TCLMDH2486	TCLMDH2686	TCLMDH2886	TCLMDH3086†	TCLMDH3286†	TCLMDH3486†	TCLMDH3886†	TCLMDH4086†
9' 0 1/2"	9' 0"										
	9' 0"	TCLMDH1890	TCLMDH2090	TCLMDH2490	TCLMDH2690	TCLMDH2890	TCLMDH3090†	TCLMDH3290†	TCLMDH3490†	TCLMDH3890†	TCLMDH4090†
9' 6 1/2"	9' 6"										
	9' 6"	TCLMDH1896	TCLMDH2096	TCLMDH2496	TCLMDH2696	TCLMDH2896	TCLMDH3096†	TCLMDH3296†	TCLMDH3496†	TCLMDH3896†	TCLMDH4096†
10' 0 1/2"	10' 0"										
	10' 0"	TCLMDH18100	TCLMDH20100	TCLMDH24100	TCLMDH26100	TCLMDH28100	TCLMDH30100†	TCLMDH32100†	TCLMDH34100†	TCLMDH38100†	TCLMDH40100†

NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6'10-1/2" structural header height). See your local code official for requirements in your area.

Units may be ordered with sash lifts if desired. Units 3'0" and wider will use two sash lifts.

Bottom sash operates up and down but does not tilt. Top sash is fixed.

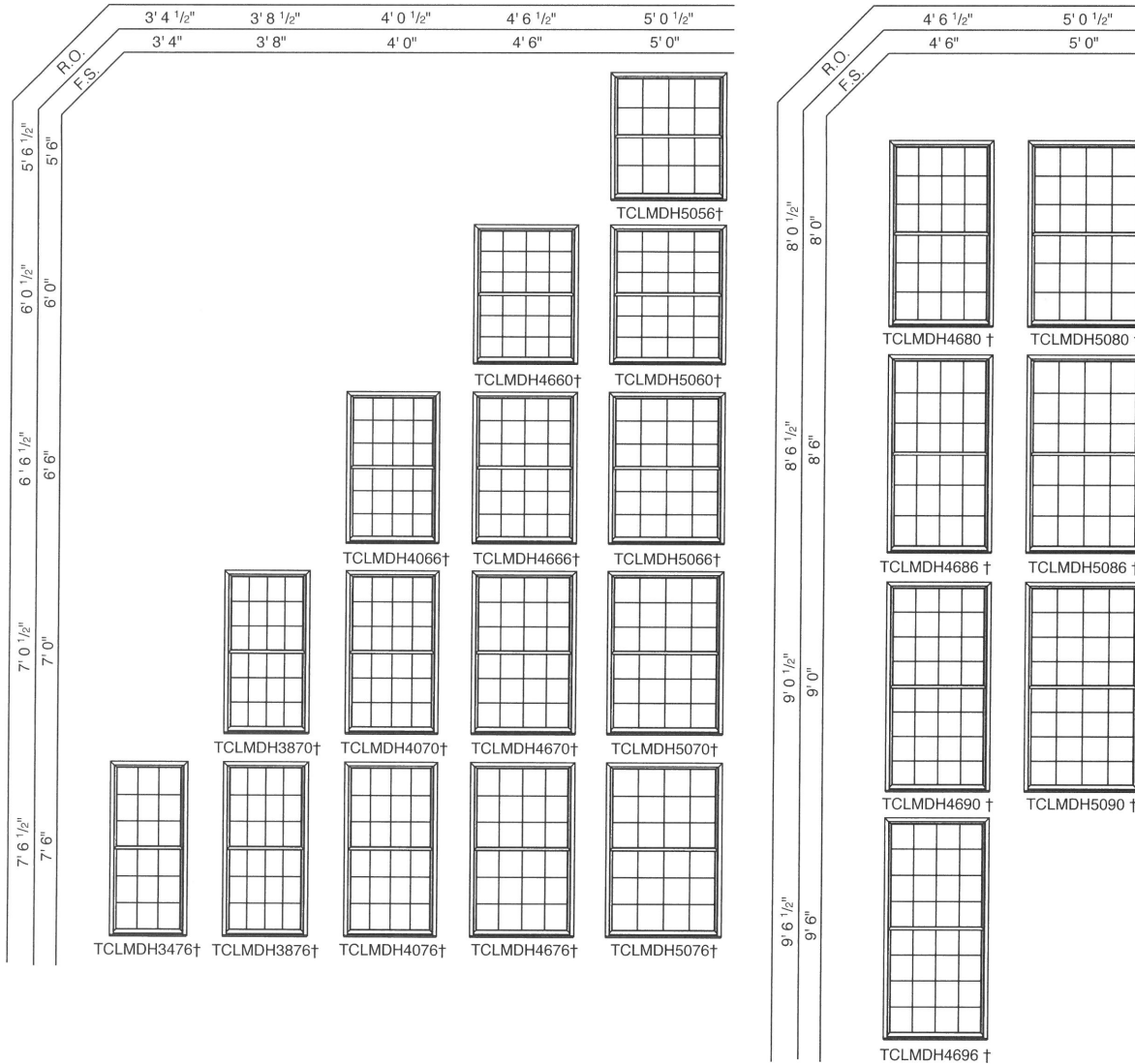
Units equal to or greater than 8'0" tall are limited to 24" of clear opening height.

Sash Ratio: Standard units are equal sash. However, Cottage and Reverse Cottage are available as an option with some limitations. Contact your local supplier for more information.

See notes on page 73 for more information.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
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Monumental Single-Hung Window Sizes



NOTES

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FORMULA FOR COMBINATION WINDOWS

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Technical drawing of a three-part mechanical assembly, likely a hinge or bracket, showing three views: a top view, a side view, and a cross-sectional view. The drawing includes the following dimensions in inches:

- Top View Dimensions:**
 - Overall width: $5 \frac{5}{8}$
 - Distance from left edge to centerline: $1 \frac{1}{16}$
 - Distance from centerline to right edge: $4 \frac{9}{16}$
 - Distance from top edge to centerline: $1 \frac{25}{64}$
 - Distance from centerline to bottom edge: $2 \frac{5}{32}$
- Side View Dimensions:**
 - Overall height: $3 \frac{15}{64}$
 - Distance from top edge to centerline: $1 \frac{43}{64}$
 - Distance from centerline to bottom edge: $1 \frac{43}{64}$
 - Distance from bottom edge to centerline: $5 \frac{3}{32}$
 - Distance from centerline to right edge: $3 \frac{47}{64}$
- Cross-sectional View Dimensions:**
 - Distance from top edge to centerline: $1 \frac{1}{16}$
 - Distance from centerline to bottom edge: $1 \frac{1}{16}$
 - Distance from bottom edge to centerline: $2 \frac{31}{32}$
 - Distance from centerline to right edge: $4 \frac{1}{8}$
 - Distance from bottom edge to centerline: $1 \frac{23}{64}$
 - Distance from centerline to right edge: $9 \frac{3}{32}$

Technical drawing showing a cross-section of a double door assembly. The drawing includes dimensions for the door frame and the door itself. Key dimensions are labeled as follows:

- Top left: $1 \frac{13}{16}$
- Top center: $11 \frac{1}{16}$
- Top right: $55 \frac{5}{64}$
- Left side (vertical): $5 \frac{5}{8}$ and $4 \frac{9}{16}$
- Bottom left: $1 \frac{1}{16}$
- Bottom center: $1 \frac{25}{64}$
- Bottom right: $2 \frac{5}{32}$
- Bottom (horizontal): $3 \frac{17}{32}$ (twice), DLO, and FRAME WIDTH

Technical drawing of a window frame cross-section. The drawing shows the frame assembly with various dimensions and components labeled.

Dimensions:

- Top horizontal dimensions: $1 \frac{1}{16}$, $4 \frac{9}{16}$, $5 \frac{5}{8}$
- Left vertical dimensions: $3 \frac{5}{32}$, $2 \frac{5}{32}$, $1 \frac{25}{64}$
- Right vertical dimensions: $1 \frac{1}{16}$, 1
- Bottom horizontal dimensions: $1 \frac{21}{64}$, $3 \frac{47}{64}$, $5 \frac{1}{16}$, $4 \frac{1}{8}$
- Bottom right vertical dimensions: $9/32$, $1 \frac{1}{16}$
- Bottom right horizontal dimension: $2 \frac{71}{32}$

Labels:

- FRAME HEIGHT
- DLO

Technical drawing of a window frame cross-section. The drawing shows a multi-pane window assembly with various dimensions and components labeled. The dimensions are as follows:

- Top left vertical dimension: $2 \frac{1}{8}$
- Top left vertical dimension: $1 \frac{1}{16}$
- Top center horizontal dimension: $1 \frac{11}{64}$
- Left side vertical dimension: $5 \frac{5}{8}$
- Left side vertical dimension: $4 \frac{9}{16}$
- Bottom left vertical dimension: $1 \frac{1}{16}$
- Bottom left horizontal dimension: $1 \frac{25}{64}$
- Bottom left horizontal dimension: $2 \frac{5}{32}$
- Bottom center horizontal dimension: $3 \frac{17}{32}$
- Bottom right horizontal dimension: $3 \frac{17}{32}$
- Bottom center horizontal dimension: DLO
- Bottom center horizontal dimension: FRAME WIDTH

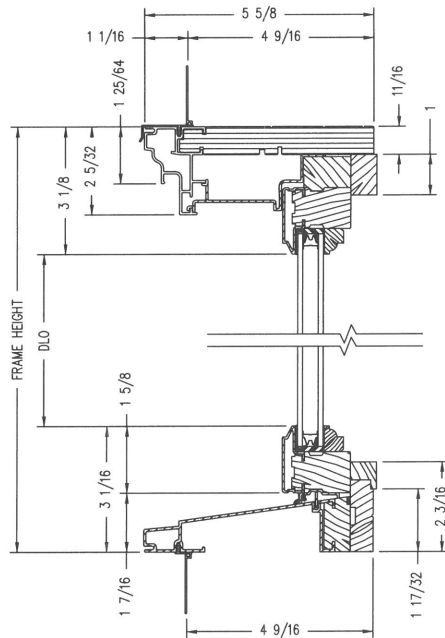
The drawing also shows a break symbol (two parallel lines) in the center of the frame, indicating that the frame is wider than shown.

Shown with ovolo (colonial) glass stops.

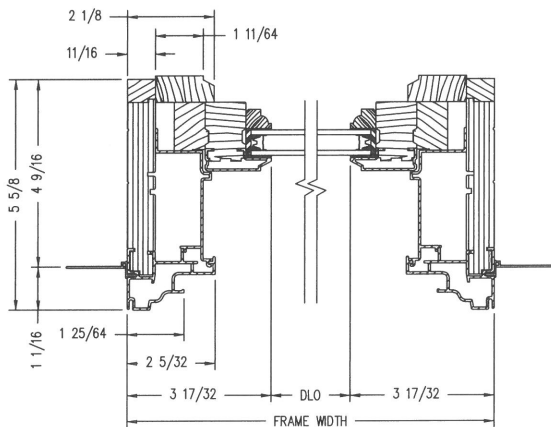
74

Double-Hung Windows

Double-Hung Transom

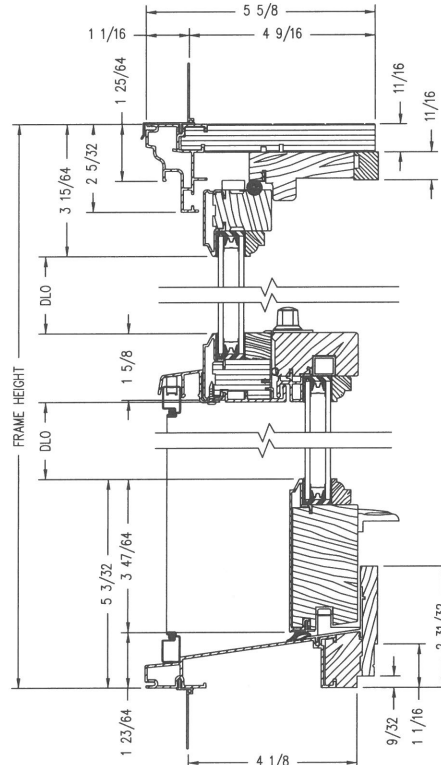


Vertical Section

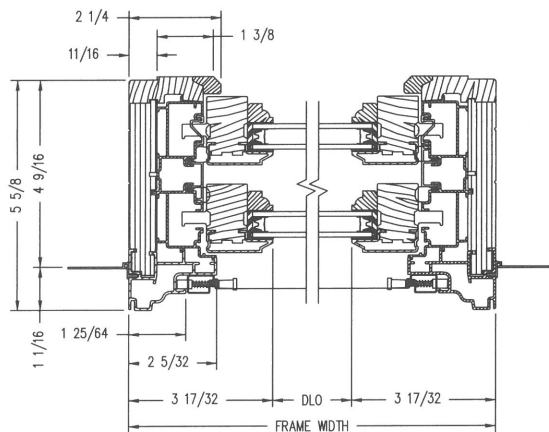


Horizontal Section

Monumental Single-Hung



Vertical Section

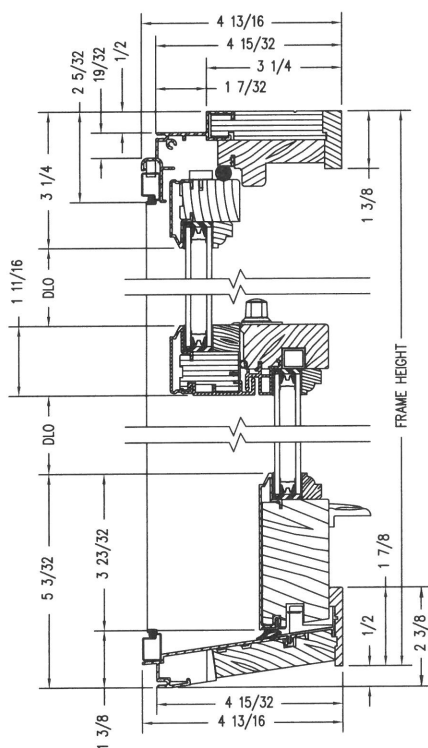


Horizontal Section

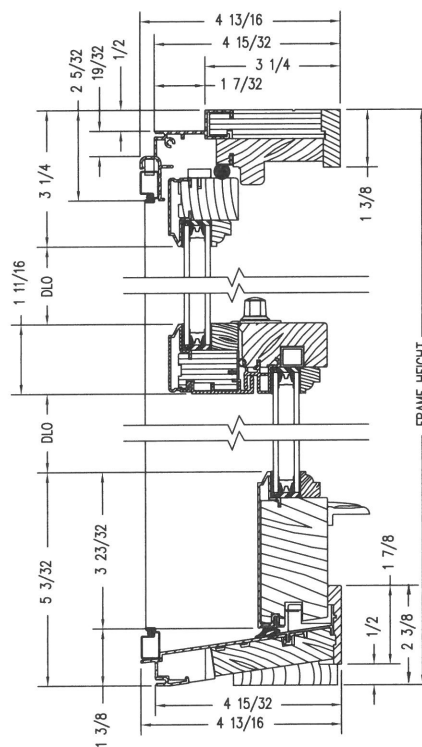
Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

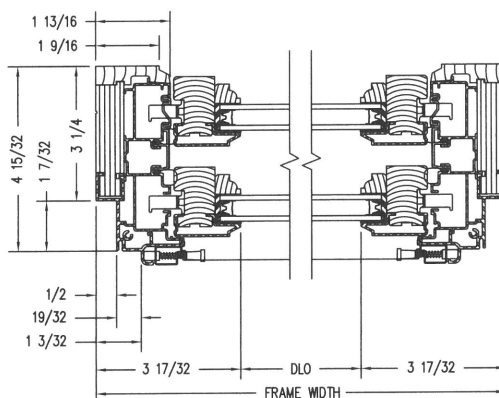
Double-Hung Insert Windows



Vertical Section
(For sill angles 8° and greater)



Vertical Section
(For sill angles less than 8°)



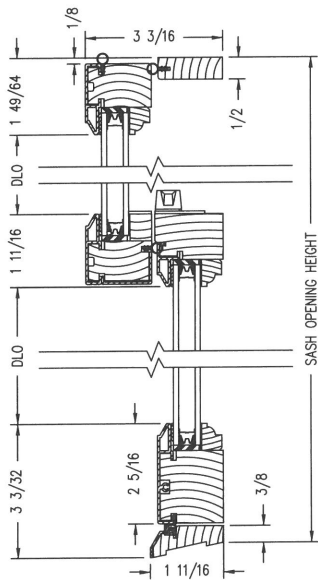
Horizontal Section

Shown with ovolo (colonial) glass stops.

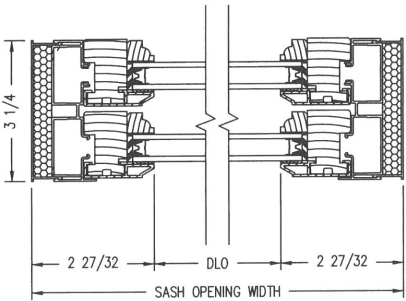
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Double-Hung Sash Replacement Kits

Double-Hung Sash Replacement

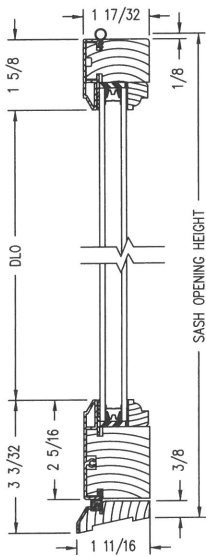


Vertical Section

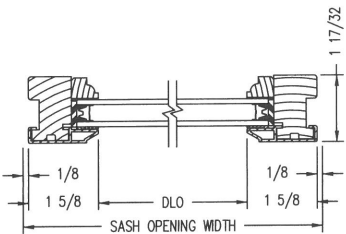


Horizontal Section

Double-Hung Picture Sash Replacement



Vertical Section

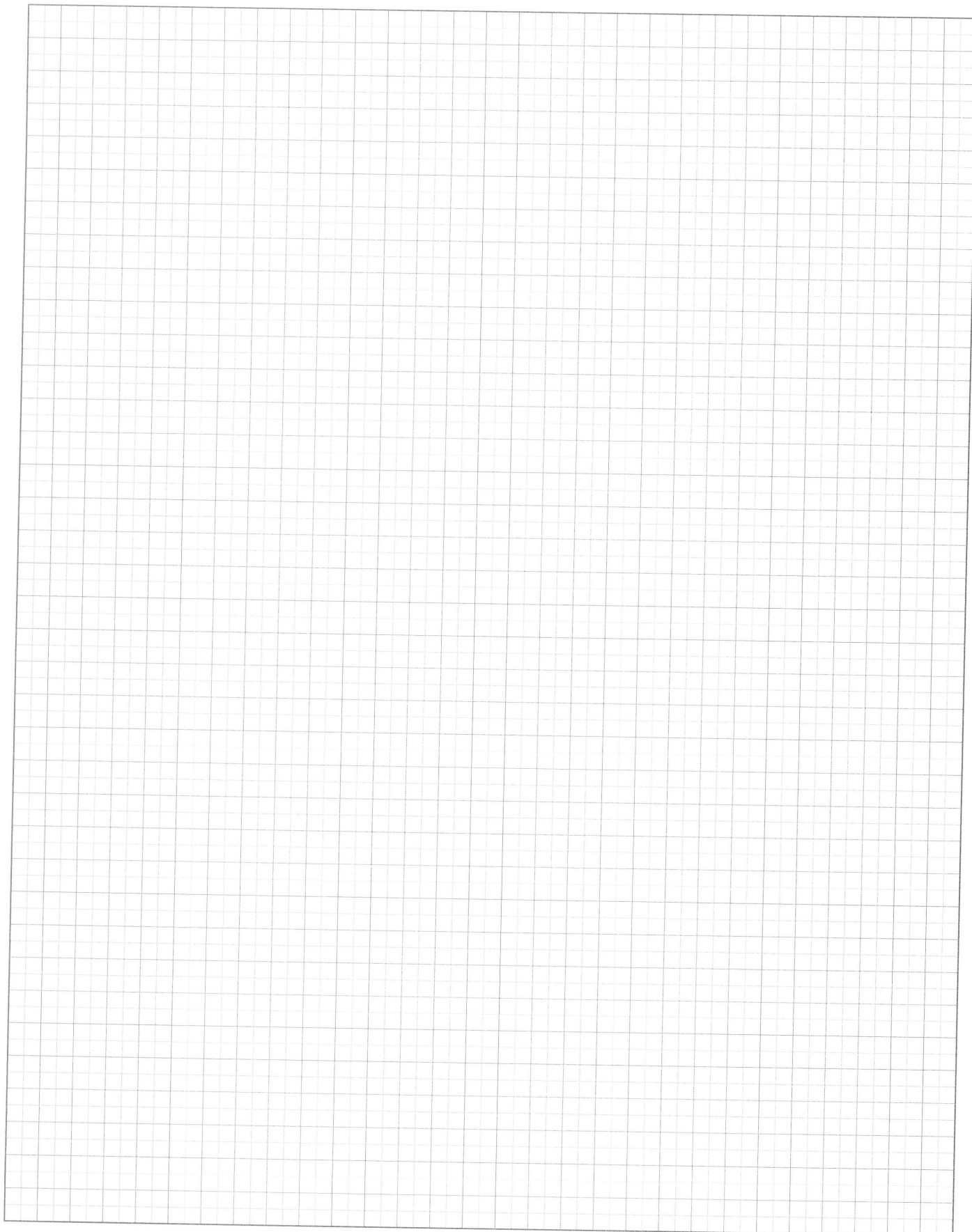


Horizontal Section

Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Notes



BAY & BOW WINDOWS

E-Series bay and bow windows provide a focal point that is architecturally consistent inside and out, making any room feel spacious. They feature consistent sight lines when integrated with double-hung or casement windows, head and seat boards in birch or oak and an all-inclusive accessory package when ordered as a kit.

Bay & Bow Window Overview 82

Sizing

10° Casement Bow	84
30° & 45° Casement Bay	85
90° Casement Box Bay	86
30° Double-Hung Bay	89
45° Double-Hung Bay	90

Window Details

Casement Bay & Bow	87
Double-Hung Bay	91
Installation Materials	154
Product Performance	158



Custom sizing is available.





BAY & BOW WINDOWS

FEATURES

BAY & BOW WINDOWS

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany,* maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

Compression bulb weatherstrip is applied for a maximum weather seal.

GLASS

B High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

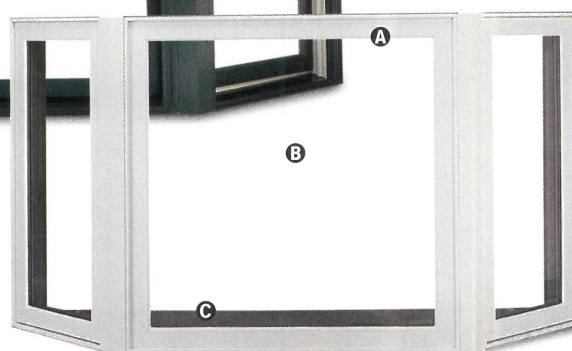
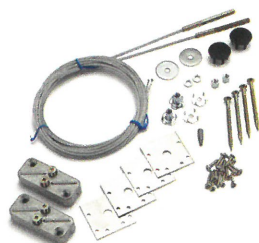
Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.



Double-Hung Bay Window

CABLE SUPPORT SYSTEM

Support is required underneath all bay and bow units. We offer a cable support system for your use. Insulated platforms and brackets are not included.



Casement Bay Window

HEAD & SEAT BOARDS

C Wood head and seat boards are available in birch or oak.

HARDWARE

See casement or double-hung sections for detailed hardware options.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

BAY & BOW WINDOWS

SENSORS

VeriLock® Security Sensors



VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide. VeriLock sensors for double-hung windows are shown below and are available in all hardware finishes.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

See page 27 for Smart Home options.

INSECT SCREENS

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Conventional Insect Screens

Charcoal fiberglass screen mesh fits into an aluminum frame. Aluminum screen mesh is available as an option.

See page 24 for more information on our insect screens.

PRIVACY OPTIONS

System 3 Blinds for Casement Windows



A 5/8" aluminum slat blind is mounted to an extruded aluminum blind panel and applied to the window, creating a triple-glazed window boasting privacy and energy efficiency. Available in three colors. Blind panels are offered in white, tan, gold or an optional wood veneer to match your interior.

System 3 Shades for Casement Windows

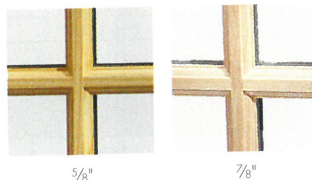
Pleated fabric shades are available in four colors to effortlessly and beautifully filter the light.

See page 25 for more information on our blinds and shades.

GRILLES

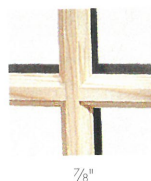
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2" or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



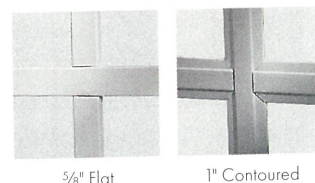
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2" or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

HARDWARE OPTIONS

Double-Hung



Lock



Sash Lift

Antique Brass | Black | **Bright Chrome** | Bronze | Gold
Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

Windows with VeriLock sensors use a different sash lock. See above for details.

Casement

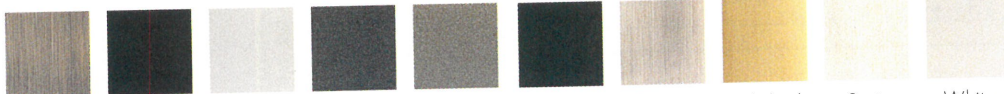


Operator Handle & Cover

Antique Brass | **Black** | Bright Chrome | Bronze | Gold
Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

Bold name denotes finish shown.

HARDWARE FINISHES



Antique Brass | Black | Bright Chrome | Bronze | Gold | Oil Rubbed Bronze | Pewter | Polished Brass | Satin Chrome | White

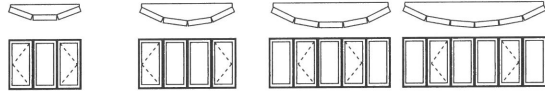
Oil rubbed bronze is a "living" finish that will change with time and use.

*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

Printing limitations prevent exact finish replication. See your Andersen supplier for actual samples.

BAY & BOW WINDOWS

10° Casement Bow Window Sizes



HEIGHT	WIDTH				
	Rough Opp.	3-WIDE 4'-6 3/16"	4-WIDE 5'-11 5/8"	5-WIDE 7'-4 9/16"	6-WIDE 8'-8 3/4"
	3'-0 1/2"	15 3/4 30-3	15 3/4 30-4	15 3/4 30-5	15 3/4 30-6
	3'-4 1/2"	15 3/4 34-3	15 3/4 34-4	15 3/4 34-5	15 3/4 34-6
	4'-0 1/2"	15 3/4 40-3	15 3/4 40-4	15 3/4 40-5	15 3/4 40-6
	4'-6 1/2"	15 3/4 46-3	15 3/4 46-4	15 3/4 46-5	15 3/4 46-6
	5'-0 1/2"	15 3/4 50-3	15 3/4 50-4	15 3/4 50-5	15 3/4 50-6
	5'-6 1/2"	15 3/4 56-3	15 3/4 56-4	15 3/4 56-5	15 3/4 56-6
	6'-0 1/2"	15 3/4 60-3	15 3/4 60-4	15 3/4 60-5	15 3/4 60-6
	Projection	0'-3 5/32"	0'-6 1/4"	0'-9 11/32"	1'-1 15/16"
	Rough Opp.	5'-0 7/8"	6'-8 1/2"	8'-3 7/16"	9'-9 11/16"
	3'-0 1/2"	1830-3	1830-4	1830-5	1830-6
	3'-4 1/2"	1834-3	1834-4	1834-5	1834-6
	4'-0 1/2"	1840-3	1840-4	1840-5	1840-6
	4'-6 1/2"	1846-3	1846-4	1846-5	1846-6
	5'-0 1/2"	1850-3	1850-4	1850-5	1850-6
	5'-6 1/2"	1856-3	1856-4	1856-5	1856-6
	6'-0 1/2"	1860-3	1860-4	1860-5	1860-6
	Projection	0'-3 9/16"	0'-7 1/32"	0'-10 1/2"	1'-3 21/32"
	Rough Opp.	6'-0 3/4"	8'-0 3/16"	9'-10 7/8"	11'-8 5/8"
	3'-0 1/2"	2030-3	2030-4	2030-5	2030-6
	3'-4 1/2"	2034-3	2034-4	2034-5	2034-6
	4'-0 1/2"	2040-3	2040-4	2040-5	2040-6
	4'-6 1/2"	2046-3	2046-4	2046-5	2046-6
	5'-0 1/2"	2050-3	2050-4	2050-5	2050-6
	5'-6 1/2"	2056-3	2056-4	2056-5	2056-6
	6'-0 1/2"	2060-3	2060-4	2060-5	2060-6
	Projection	0'-4 1/4"	0'-8 13/32"	1'-0 9/16"	1'-6 3/4"
	Rough Opp.	7'-0 5/8"	9'-3 7/8"	11'-6 1/4"	
	3'-0 1/2"	2430-3	2430-4	2430-5	-----
	3'-4 1/2"	2434-3	2434-4	2434-5	-----
	4'-0 1/2"	2440-3	2440-4	2440-5	-----
	4'-6 1/2"	2446-3	2446-4	2446-5	-----
	5'-0 1/2"	2450-3	2450-4	2450-5	-----
	5'-6 1/2"	2456-3	2456-4	2456-5	-----
	6'-0 1/2"	2460-3	2460-4	2460-5	-----
	Projection	0'-4 15/16"	0'-9 13/16"	1'-2 5/8"	-----
	Rough Opp.	7'-6 9/16"	9'-11 11/16"	12'-3 15/16"	
	3'-0 1/2"	2630-3	2630-4	2630-5	-----
	3'-4 1/2"	2634-3	2634-4	2634-5	-----
	4'-0 1/2"	2640-3	2640-4	2640-5	-----
	4'-6 1/2"	2646-3	2646-4	2646-5	-----
	5'-0 1/2"	2650-3	2650-4	2650-5	-----
	5'-6 1/2"	2656-3	2656-4	2656-5	-----
	6'-0 1/2"	2660-3	2660-4	2660-5	-----
	Projection	0'-5 5/16"	0'-10 1/2"	1'-3 21/32"	-----

NOTES

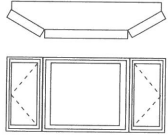
Projection is measured from the outside of the exterior sheathing to the exterior sheathing line of the outermost unit.

Support is required underneath all bay and bow units. For additional support, we offer a cable support system.

Insulated platforms and brackets are not included.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

30° Casement Angle Bay Window Sizes


NOTES

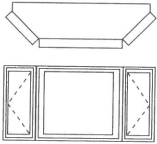
Projection is measured from the outside of the exterior sheathing to the exterior sheathing line of the outermost unit.

Support is required underneath all bay and bow units.
For additional support, we offer a cable support system.

Insulated platforms and brackets are not included.

		WIDTH					
		30 Degree Casement Angle Bay Units					
HEIGHT	Rough Opg.	6'-5 11/16"	7'-1 11/16"	8'-1 11/16"	7'-0 5/8"	7'-8 5/8"	8'-8 5/8"
		1'-8" Wide Flanker Units			2'-0" Wide Flanker Units		
		3'-4" Center	4'-0" Center	5'-0" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	1840-3440-1840	1840-4040-1840	1840-5040-1840	2040-3440-2040	2040-4040-2040	2040-5040-2040
	4'-6 1/2"	1846-3446-1846	1846-4046-1846	1846-5046-1846	2046-3446-2046	2046-4046-2046	2046-5046-2046
	5'-0 1/2"	1850-3450-1850	1850-4050-1850	1850-5050-1850	2050-3450-2050	2050-4050-2050	2050-5050-2050
	5'-6 1/2"	1856-3456-1856	1856-4056-1856	1856-5056-1856	2056-3456-2056	2056-4056-2056	2056-5056-2056
	6'-0 1/2"	1860-3460-1860	1860-4060-1860	1860-5060-1860	2060-3460-2060	2060-4060-2060	2060-5060-2060
	Projection	0'-10 17/32"	0'-10 17/32"	0'-10 17/32"	1'-0 17/32"	1'-0 17/32"	1'-0 17/32"
HEIGHT	Rough Opg.	7'-7 9/16"	8'-3 9/16"	9'-3 9/16"	7'-11"	8'-7"	9'-7"
		2'-4" Wide Flanker Units			2'-6" Wide Flanker Units		
		3'-4" Center	4'-0" Center	5'-0" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	2440-3440-2440	2440-4040-2440	2440-5040-2440	2640-3440-2640	2640-4040-2640	2640-5040-2640
	4'-6 1/2"	2446-3446-2446	2446-4046-2446	2446-5046-2446	2646-3446-2646	2646-4046-2646	2646-5046-2646
	5'-0 1/2"	2450-3450-2450	2450-4050-2450	2450-5050-2450	2650-3450-2650	2650-4050-2650	2650-5050-2650
	5'-6 1/2"	2456-3456-2456	2456-4056-2456	2456-5056-2456	2656-3456-2656	2656-4056-2656	2656-5056-2656
	6'-0 1/2"	2460-3460-2460	2460-4060-2460	2460-5060-2460	2660-3460-2660	2660-4060-2660	2660-5060-2660
	Projection	1'-2 17/32"	1'-2 17/32"	1'-2 17/32"	1'-3 17/32"	1'-3 17/32"	1'-3 17/32"

45° Casement Angle Bay Window Sizes

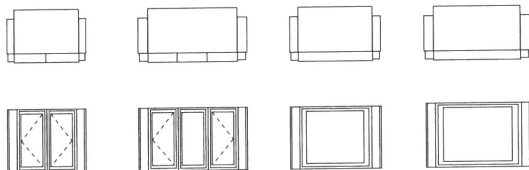


		WIDTH					
		45 Degree Casement Angle Bay Units					
HEIGHT	Rough Opg.	6'-0 3/4"	6'-8 3/4"	7'-8 3/4"	6'-6 3/8"	7'-2 3/8"	8'-2 3/8"
		1'-8" Wide Flanker Units			2'-0" Wide Flanker Units		
		3'-4" Center	4'-0" Center	5'-0" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	1840-3440-1840	1840-4040-1840	1840-5040-1840	2040-3440-2040	2040-4040-2040	2040-5040-2040
	4'-6 1/2"	1846-3446-1846	1846-4046-1846	1846-5046-1846	2046-3446-2046	2046-4046-2046	2046-5046-2046
	5'-0 1/2"	1850-3450-1850	1850-4050-1850	1850-5050-1850	2050-3450-2050	2050-4050-2050	2050-5050-2050
	5'-6 1/2"	1856-3456-1856	1856-4056-1856	1856-5056-1856	2056-3456-2056	2056-4056-2056	2056-5056-2056
	6'-0 1/2"	1860-3460-1860	1860-4060-1860	1860-5060-1860	2060-3460-2060	2060-4060-2060	2060-5060-2060
	Projection	1'-3 5/32"	1'-3 5/32"	1'-3 5/32"	1'-6"	1'-6"	1'-6"
HEIGHT	Rough Opg.	7'-0"	7'-8"	8'-8"	7'-2 7/8"	7'-10 7/8"	8'-10 7/8"
		2'-4" Wide Flanker Units			2'-6" Wide Flanker Units		
		3'-4" Center	4'-0" Center	5'-0" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	2440-3440-2440	2440-4040-2440	2440-5040-2440	2640-3440-2640	2640-4040-2640	2640-5040-2640
	4'-6 1/2"	2446-3446-2446	2446-4046-2446	2446-5046-2446	2646-3446-2646	2646-4046-2646	2646-5046-2646
	5'-0 1/2"	2450-3450-2450	2450-4050-2450	2450-5050-2450	2650-3450-2650	2650-4050-2650	2650-5050-2650
	5'-6 1/2"	2456-3456-2456	2456-4056-2456	2456-5056-2456	2656-3456-2656	2656-4056-2656	2656-5056-2656
	6'-0 1/2"	2460-3460-2460	2460-4060-2460	2460-5060-2460	2660-3460-2660	2660-4060-2660	2660-5060-2660
	Projection	1'-8 13/16"	1'-8 13/16"	1'-8 13/16"	1'-10 7/32"	1'-10 7/32"	1'-10 7/32"

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

BAY & BOW WINDOWS

90° Casement Box Bay Window Sizes



		WIDTH			
HEIGHT	Rough Openings	3'-0"	4'-5 3/4"	4'-0 1/2"	5'-0 1/2"
		15 3/4-2 Center	15 3/4 -3 Center	4'-0" Center	5'-0" Center
	3'-0 1/2"	15 3/4 30-2	15 3/4 30-3	4030	5030
	4'-0 1/2"	15 3/4 40-2	15 3/4 40-3	4040	5040
	5'-0 1/2"	15 3/4 50-2	15 3/4 50-3	4050	5050
Projection		1'-10 7/8"	1'-10 7/8"	1'-10 7/8"	1'-10 7/8"

1'-5 3/4" wide operating casement flankers are standard on all box bay units.

NOTES

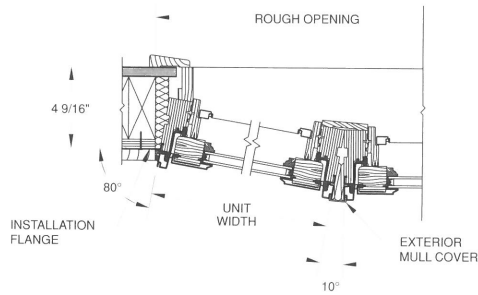
Projection is measured from the outside of the exterior sheathing to the exterior sheathing line of the outermost unit.

Support is required underneath all bay and bow units. For additional support, we offer a cable support system.

Insulated platforms and brackets are not included.

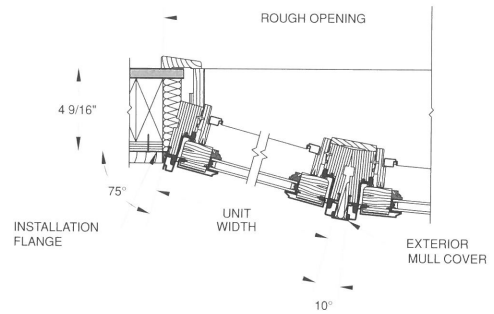
FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

3-Wide 10° Casement Bow Windows



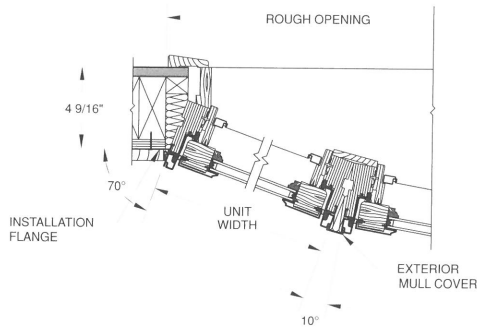
Horizontal Section

4-Wide 10° Casement Bow Windows



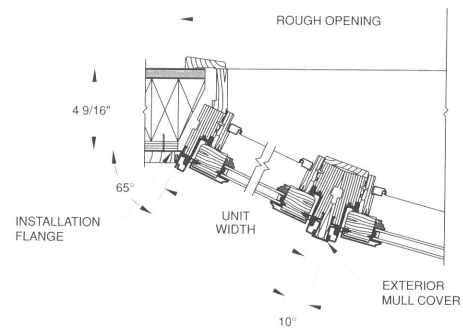
Horizontal Section

5-Wide 10° Casement Bow Windows



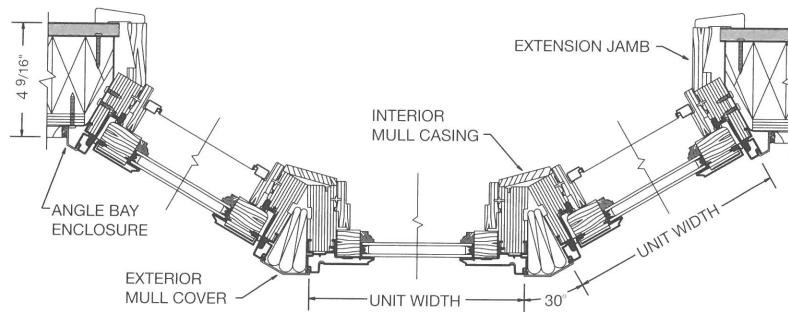
Horizontal Section

6-Wide 10° Casement Bow Windows



Horizontal Section

30° Casement Angle Bay Windows

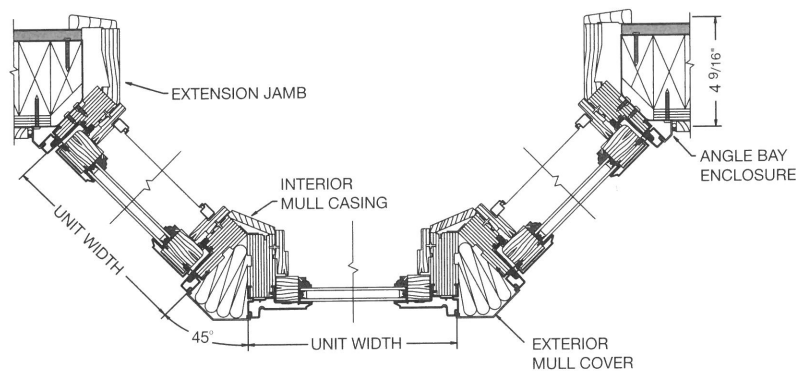


Horizontal Section

Shown with ovolo (colonial) glass stops.

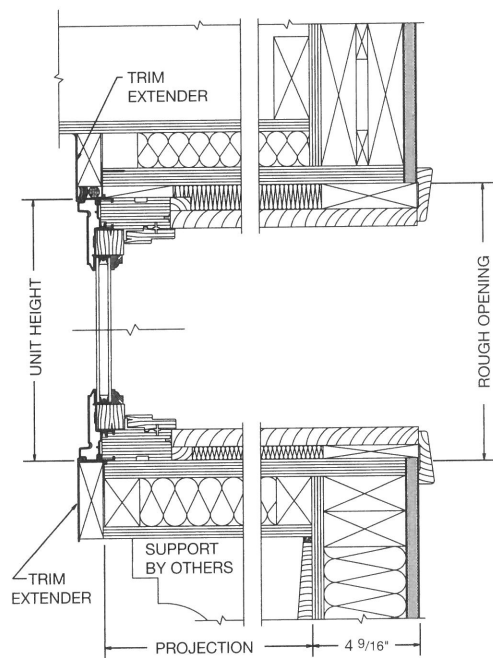
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

45° Casement Angle Bay Windows



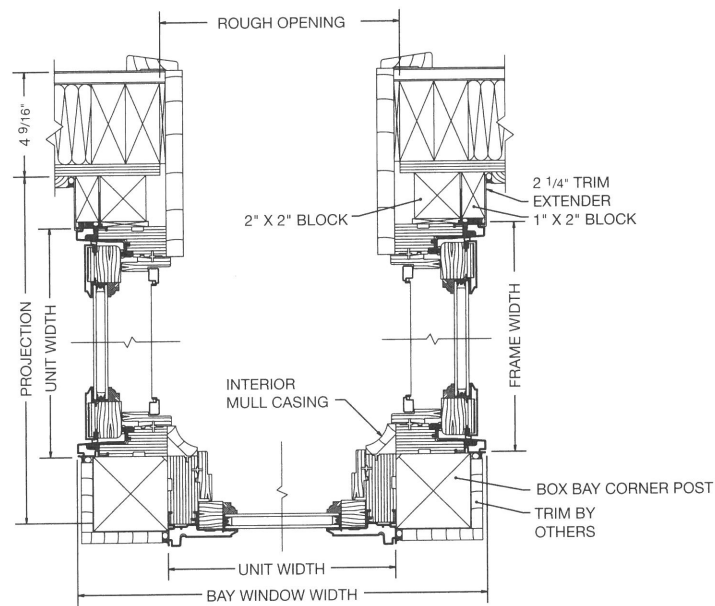
Horizontal Section

Casement Bay/Bow Windows



Vertical Section

90° Casement Box Bay Windows

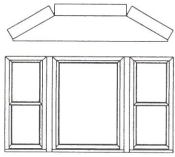


Horizontal Section

Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

30° Double-Hung Angle Bay Window Sizes



		WIDTH				
		30 Degree Double-Hung Angle Bay Units				
HEIGHT	Rough Opp.	6'-3 11/16"	6'-5 11/16"	6'-7 11/16"	7'-3 11/16"	8'-3 11/16"
		1'-8" Wide Flanker Units				
		3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	1840-3040-1840	1840-3240-1840	1840-3440-1840	1840-4040-1840	1840-5040-1840
	4'-6 1/2"	1846-3046-1846	1846-3246-1846	1846-3446-1846	1846-4046-1846	1846-5046-1846
	4'-9 1/2"	1849-3049-1849	1849-3249-1849	1849-3449-1849	1849-4049-1849	1849-5049-1849
	5'-0 1/2"	1850-3050-1850	1850-3250-1850	1850-3450-1850	1850-4050-1850	1850-5050-1850
	5'-1 1/2"	1851-3051-1851	1851-3251-1851	1851-3451-1851	1851-4051-1851	1851-5051-1851
	5'-6 1/2"	1856-3056-1856	1856-3256-1856	1856-3456-1856	1856-4056-1856	1856-5056-1856
	6'-0 1/2"	1860-3060-1860	1860-3260-1860	1860-3460-1860	1860-4060-1860	1860-5060-1860
	Projection	0'-10 3/4"	0'-10 3/4"	0'-10 3/4"	0'-10 3/4"	0'-10 3/4"
	Rough Opp.	6'-10 5/8"	7'-0 5/8"	7'-2 5/8"	7'-10 5/8"	8'-10 5/8"
		2'-0" Wide Flanker Units				
		3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	2040-3040-2040	2040-3240-2040	2040-3440-2040	2040-4040-2040	2040-5040-2040
	4'-6 1/2"	2046-3046-2046	2046-3246-2046	2046-3446-2046	2046-4046-2046	2046-5046-2046
	4'-9 1/2"	2049-3049-2049	2049-3249-2049	2049-3449-2049	2049-4049-2049	2049-5049-2049
	5'-0 1/2"	2050-3050-2050	2050-3250-2050	2050-3450-2050	2050-4050-2050	2050-5050-2050
	5'-1 1/2"	2051-3051-2051	2051-3251-2051	2051-3451-2051	2051-4051-2051	2051-5051-2051
	5'-6 1/2"	2056-3056-2056	2056-3256-2056	2056-3456-2056	2056-4056-2056	2056-5056-2056
	6'-0 1/2"	2060-3060-2060	2060-3260-2060	2060-3460-2060	2060-4060-2060	2060-5060-2060
	Projection	1'-0 3/4"	1'-0 3/4"	1'-0 3/4"	1'-0 3/4"	1'-0 3/4"
	Rough Opp.	7'-5 1/2"	7'-7 1/2"	7'-9 1/2"	8'-5 1/2"	9'-5 1/2"
		2'-4" Wide Flanker Units				
		3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
	4'-0 1/2"	2440-3040-2440	2440-3240-2440	2440-3440-2440	2440-4040-2440	2440-5040-2440
	4'-6 1/2"	2446-3046-2446	2446-3246-2446	2446-3446-2446	2446-4046-2446	2446-5046-2446
	4'-9 1/2"	2449-3049-2449	2449-3249-2449	2449-3449-2449	2449-4049-2449	2449-5049-2449
	5'-0 1/2"	2450-3050-2450	2450-3250-2450	2450-3450-2450	2450-4050-2450	2450-5050-2450
	5'-1 1/2"	2451-3051-2451	2451-3251-2451	2451-3451-2451	2451-4051-2451	2451-5051-2451
	5'-6 1/2"	2456-3056-2456	2456-3256-2456	2456-3456-2456	2456-4056-2456	2456-5056-2456
	6'-0 1/2"	2460-3060-2460	2460-3260-2460	2460-3460-2460	2460-4060-2460	2460-5060-2460
	Projection	1'-2 3/4"	1'-2 3/4"	1'-2 3/4"	1'-2 3/4"	1'-2 3/4"

NOTES

Projection is measured from the outside of the exterior sheathing to the exterior sheathing line of the outermost unit.

Support is required underneath all bay and bow units. For additional support, we offer a cable support system.

Insulated platforms and brackets are not included.

BAY & BOW WINDOWS

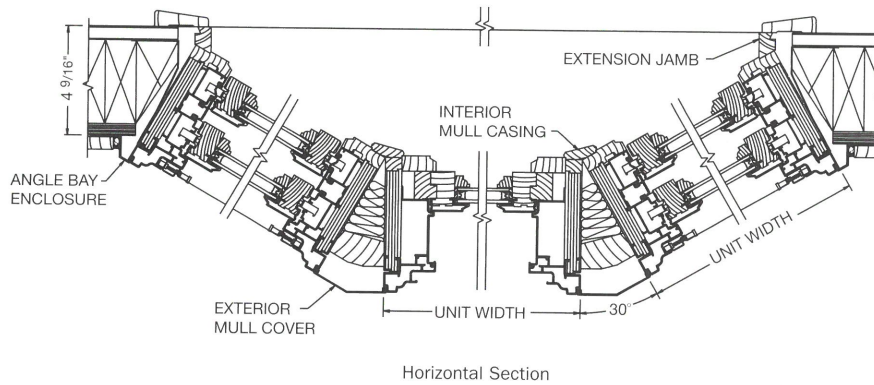
45° Double-Hung Angle Bay Window Sizes



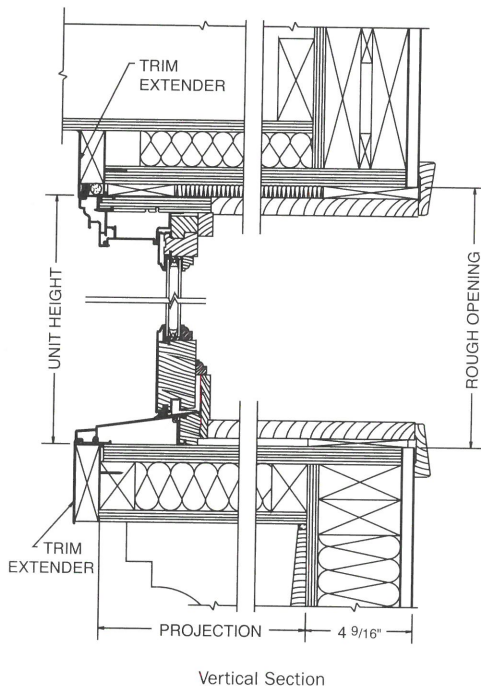
WIDTH					
45 Degree Double-Hung Angle Bay Units					
Rough Opg.	5'-11 1/16"	6'-1 1/16"	6'-3 1/16"	6'-11 1/16"	7'-11 1/16"
	1'-8" Wide Flanker Units				
	3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
4'-0 1/2"	1840-3040-1840	1840-3240-1840	1840-3440-1840	1840-4040-1840	1840-5040-1840
4'-6 1/2"	1846-3046-1846	1846-3246-1846	1846-3446-1846	1846-4046-1846	1846-5046-1846
4'-9 1/2"	1849-3049-1849	1849-3249-1849	1849-3449-1849	1849-4049-1849	1849-5049-1849
5'-0 1/2"	1850-3050-1850	1850-3250-1850	1850-3450-1850	1850-4050-1850	1850-5050-1850
5'-1 1/2"	1851-3051-1851	1851-3251-1851	1851-3451-1851	1851-4051-1851	1851-5051-1851
5'-6 1/2"	1856-3056-1856	1856-3256-1856	1856-3456-1856	1856-4056-1856	1856-5056-1856
6'-0 1/2"	1860-3060-1860	1860-3260-1860	1860-3460-1860	1860-4060-1860	1860-5060-1860
Projection	1'-3 11/16"	1'-3 11/16"	1'-3 11/16"	1'-3 11/16"	1'-3 11/16"
HEIGHT					
Rough Opg.	6'-4 3/4"	6'-6 3/4"	6'-8 3/4"	7'-4 3/4"	8'-4 3/4"
	2'-0" Wide Flanker Units				
	3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
4'-0 1/2"	2040-3040-2040	2040-3240-2040	2040-3440-2040	2040-4040-2040	2040-5040-2040
4'-6 1/2"	2046-3046-2046	2046-3246-2046	2046-3446-2046	2046-4046-2046	2046-5046-2046
4'-9 1/2"	2049-3049-2049	2049-3249-2049	2049-3449-2049	2049-4049-2049	2049-5049-2049
5'-0 1/2"	2050-3050-2050	2050-3250-2050	2050-3450-2050	2050-4050-2050	2050-5050-2050
5'-1 1/2"	2051-3051-2051	2051-3251-2051	2051-3451-2051	2051-4051-2051	2051-5051-2051
5'-6 1/2"	2056-3056-2056	2056-3256-2056	2056-3456-2056	2056-4056-2056	2056-5056-2056
6'-0 1/2"	2060-3060-2060	2060-3260-2060	2060-3460-2060	2060-4060-2060	2060-5060-2060
Projection	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"	1'-6 1/2"
Rough Opg.	6'-10 3/8"	7'-0 3/8"	7'-2 3/8"	7'-10 3/8"	8'-10 3/8"
	2'-4" Wide Flanker Units				
	3'-0" Center	3'-2" Center	3'-4" Center	4'-0" Center	5'-0" Center
4'-0 1/2"	2440-3040-2440	2440-3240-2440	2440-3440-2440	2440-4040-2440	2440-5040-2440
4'-6 1/2"	2446-3046-2446	2446-3246-2446	2446-3446-2446	2446-4046-2446	2446-5046-2446
4'-9 1/2"	2449-3049-2449	2449-3249-2449	2449-3449-2449	2449-4049-2449	2449-5049-2449
5'-0 1/2"	2450-3050-2450	2450-3250-2450	2450-3450-2450	2450-4050-2450	2450-5050-2450
5'-1 1/2"	2451-3051-2451	2451-3251-2451	2451-3451-2451	2451-4051-2451	2451-5051-2451
5'-6 1/2"	2456-3056-2456	2456-3256-2456	2456-3456-2456	2456-4056-2456	2456-5056-2456
6'-0 1/2"	2460-3060-2460	2460-3260-2460	2460-3460-2460	2460-4060-2460	2460-5060-2460
Projection	1'-9 11/32"	1'-9 11/32"	1'-9 11/32"	1'-9 11/32"	1'-9 11/32"

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
 A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
 ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

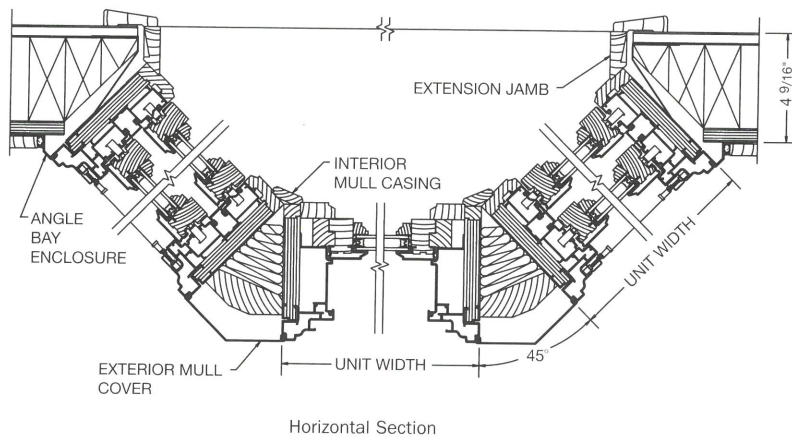
30° Double-Hung Angle Bay Windows



Double-Hung Angle Bay Windows



45° Double-Hung Angle Bay Windows



E-Series Bay & Bow
Windows

Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

GLIDING WINDOWS

Functionality is the key to our gliding window. Efficient space utilization and sleek lines make this window the right choice for that tight, hard-to-manage space. With two or three sash systems all-in-one frame and discreet hardware creating clear, unobstructed views, these windows offer a cost-effective design with modern efficiencies.

Gliding Window Overview	94
Sizing	
Gliding 2-Sash	96
Gliding 3-Sash	96
Window Details	97
Installation Materials	154
Product Performance	158



Custom sizing is available.





GLIDING WINDOWS

FEATURES

GLIDING WINDOWS

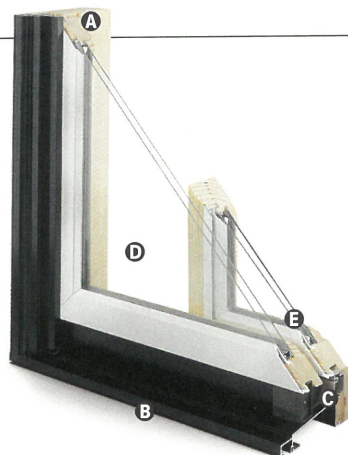
FRAME & SASH

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.

Compression foam-filled bulb weatherstrip is applied on the sill for maximum resistance to water and air infiltration. Outside and inside sash are sealed with a compression bulb weatherstrip at the meeting stile.



HEAD & SILL TRACK

C The frame consists of a rigid vinyl head and sill track. The compression-style head track helps create a positive seal between the sash and frame.

GLASS

D High-Performance Low-E4® glass with a low-conductivity spacer. Tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

E Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Sash locks and keepers give a slim, more traditional design and allow easy opening.

Slim Line sash pulls allow easy operation and do not interfere with window coverings.

HARDWARE OPTIONS



Sash Lock



Slim Line Sash Pull

Antique Brass | **Black** | Bright Chrome
Bronze | Gold | Oil Rubbed Bronze
Pewter | Polished Brass
Satin Chrome | White

Black | Bronze
Gold | White

Optional polished brass plated finish also available.

Windows with VeriLock® sensors use a different sash lock. See the next page for details. Bold name denotes finish shown.

HARDWARE FINISHES



Oil rubbed bronze is a "living" finish that will change with time and use.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish samples.

ACCESSORIES Sold Separately

GLIDING WINDOWS

SENSORS

VeriLock® Security Sensors



VeriLock sensors are unique as they detect whether the windows are locked or unlocked* — a feature no other sensors can provide. Available in all hardware finishes.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

See page 27 for Smart Home options.

INSECT SCREENS

TruScene® Insect Screens

Andersen® TruScene insect screens let in over 25% more fresh air and provide 50% greater clarity than conventional Andersen insect screens, all while keeping out unwanted small insects. Frames are available in painted aluminum or wood-veneered options.

Conventional Insect Screens



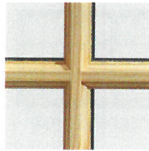
Charcoal fiberglass screen mesh fits into an aluminum frame in all 50 exterior colors. Aluminum screen mesh is available as an option.

See page 24 for more information on our insect screens.

GRILLES

Full Divided Light

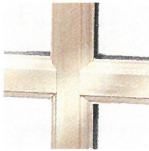
Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ " or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



$\frac{5}{8}$ "



$\frac{7}{8}$ "



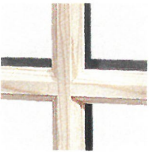
$1\frac{1}{8}$ "



$1\frac{1}{2}$ "

Simulated Divided Light

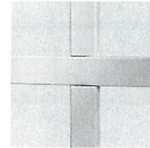
Permanent exterior and interior grilles without grille spacer bars. Available in $\frac{5}{8}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{2}$ " or $2\frac{1}{4}$ " widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



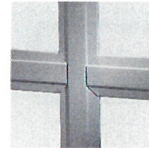
$\frac{7}{8}$ "

Finelight™ Grilles-Between-the-Glass

Available in $\frac{5}{8}$ " flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



$\frac{5}{8}$ " Flat



1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a $\frac{7}{8}$ " width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



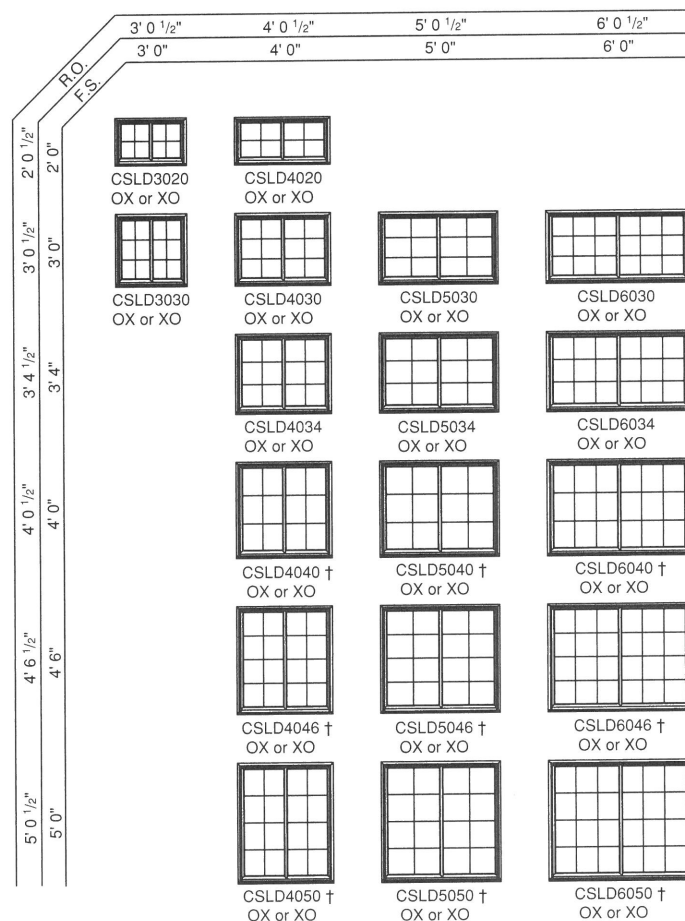
$\frac{7}{8}$ "

See page 22 for more information on grilles.

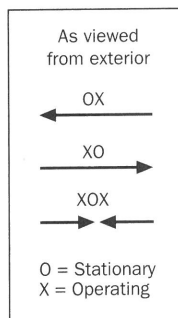
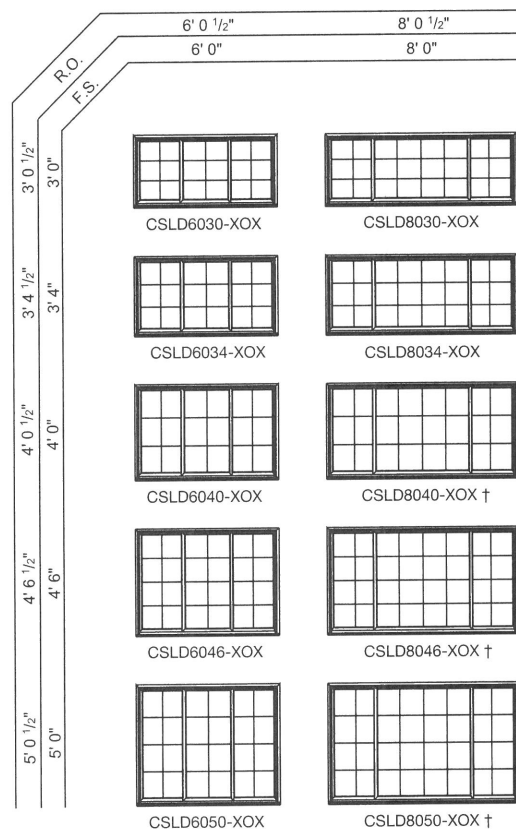
*When properly configured and maintained with a professionally installed security system and/or self monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

GLIDING WINDOWS

2-Sash Gliding Window Sizes



3-Sash Gliding Window Sizes



NOTES

† These units meet or exceed the following dimensions: Clear Opening Area 5.7 sq. ft., Clear Opening Width 20", Clear Opening Height 24" and 44" maximum floor to sill height (with standard 6' 10-1/2" structural header height). See your local code official for requirements in your area.

3-sash gliding units use 2'0" operating sash as a standard. Additional sash ratios also available.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

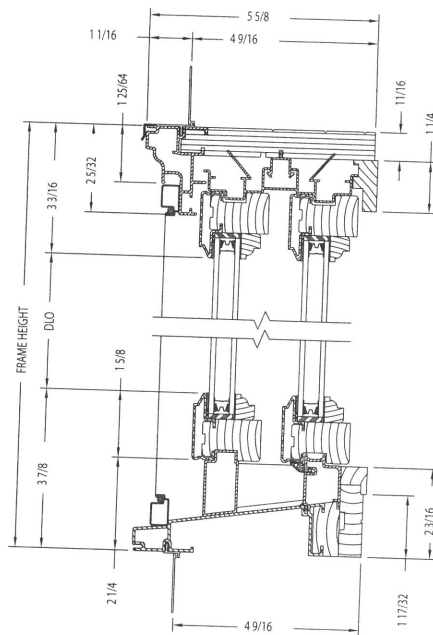
Use structural joining material when necessary or required by code.

The light patterns illustrated apply to rectangular removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

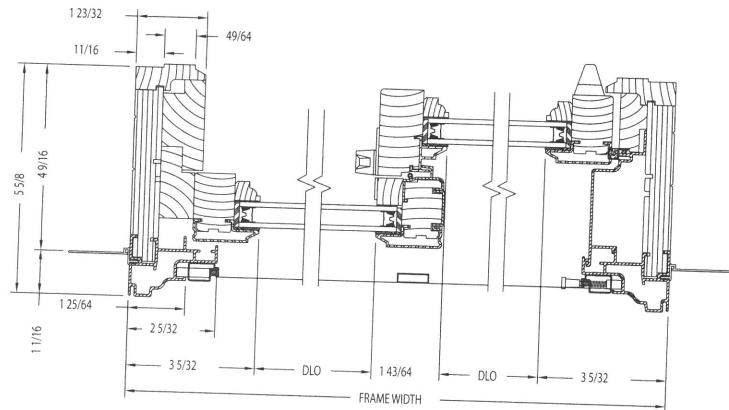
For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

2-Sash Gliding Windows



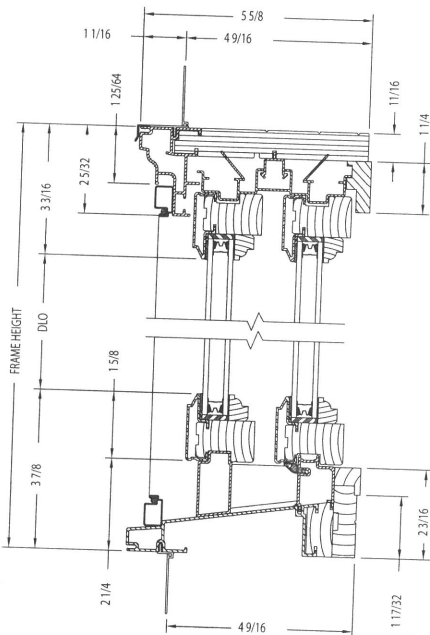
Vertical Section



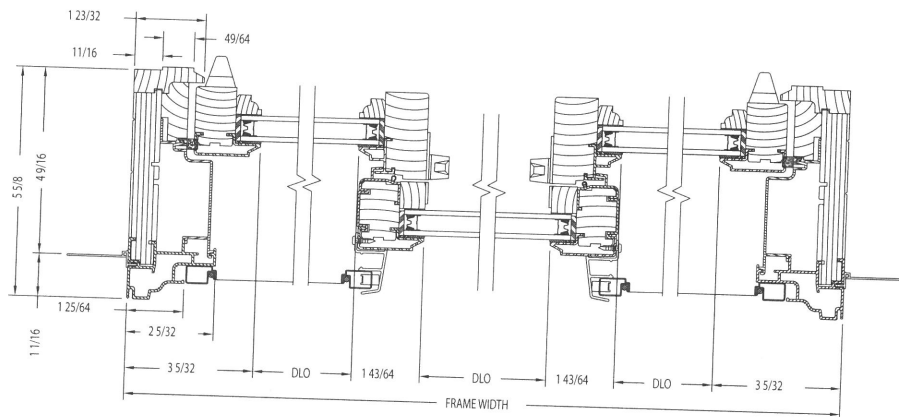
Horizontal Section

Shown with ovolo (colonial) glass stops.

3-Sash Gliding Windows



Vertical Section



Horizontal Section

Shown with ovolo (colonial) glass stops.

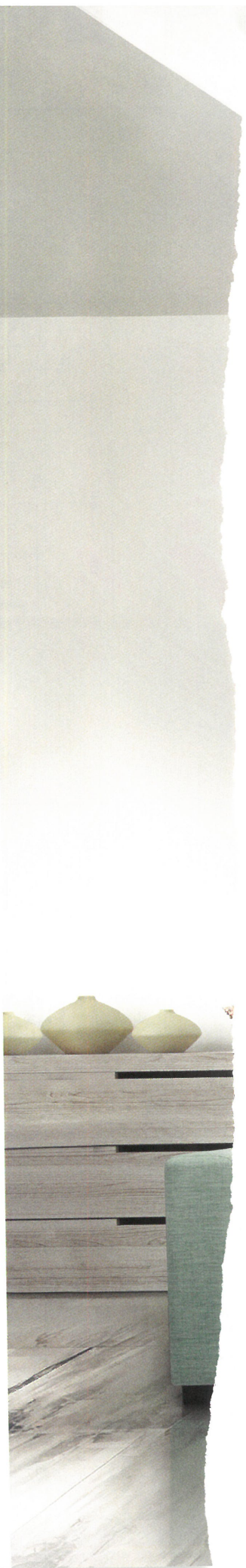
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

SPECIALTY WINDOWS

Our made-to-order philosophy lets you be creative with your look. Design your very own window using basic or unique shapes and add decorative glass for a creative accent. Our specialty profiles even complement double-hung and casement details for ultimate design flexibility.

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Sizing	
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Circle & Oval	104
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Installation Materials	154
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Custom sizing is available.





SPECIALTY WINDOWS

FEATURES

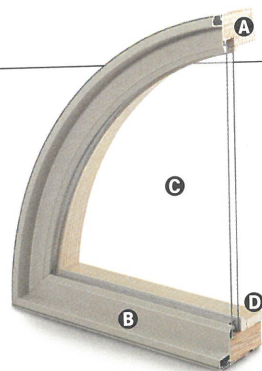
SPECIALTY WINDOWS

FRAME & SASH

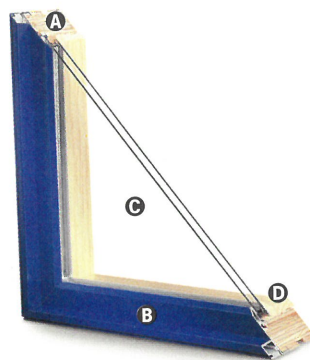
A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

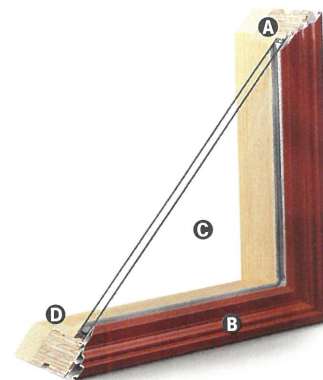
Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges or metal installation clips are available.



Half Circle



Geometric Specialty



Double-Hung Specialty

In addition to our standard profile, a double-hung specialty frame profile is also available for half circle and geometric specialty windows.

GLASS

C High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

D Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahogany.
Printing limitations prevent exact replication of colors and finishes. Please see your Andersen supplier for actual color and finish sample.

ACCESSORIES Sold Separately

SPECIALTY WINDOWS

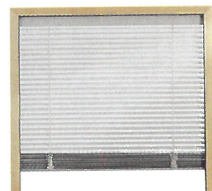
PRIVACY OPTIONS

Blinds-Between-the-Glass



A 5/8" aluminum slot blind is encased between two panes of insulated glass in a dust-free environment (rectangular shapes only). Available colors are white, tan and almond. Blind can be tilted or raised and lowered with the use of one cord (not all sizes are retractable).

System 3 Blinds



A 5/8" aluminum slot blind is mounted to an extruded aluminum blind panel and applied to the window, creating a triple-glazed window boasting privacy and energy efficiency. Available in three colors. Blind panels are offered in white, tan, gold or an optional wood veneer to match your interior.

System 3 Shades

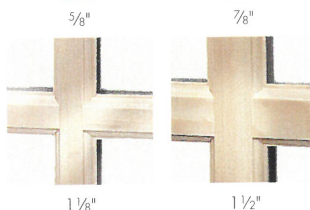
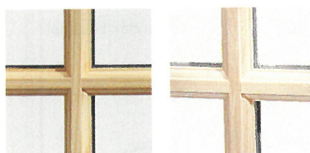
Pleated fabric shades are available in four colors to effortlessly and beautifully filter the light.

See page 25 for more information on our blinds and shades.

GRILLES

Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



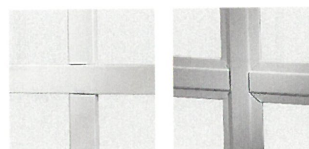
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



5/8" Flat

1" Contoured

Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



7/8"

See page 22 for more information on grilles.

SPECIALTY WINDOWS

Specialty Shapes



Half Circle



Quarter Circle



Elliptical



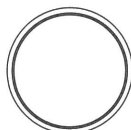
Gothic



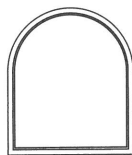
Eyebrow



Partial Eyebrow



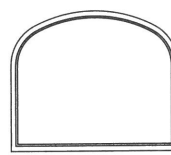
Circle



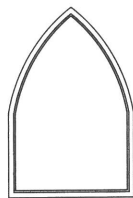
Springline™



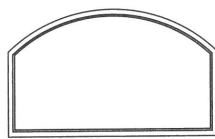
Springline Flanker



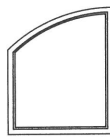
Extended Elliptical



Extended Gothic



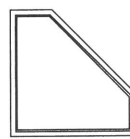
Arch



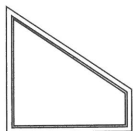
Unequal Leg Arch



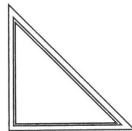
Oval



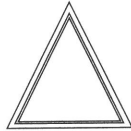
Angled Pentagon



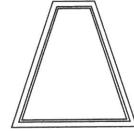
Trapezoid



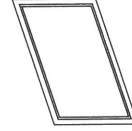
Right Triangle



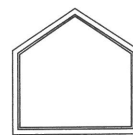
Isosceles Triangle



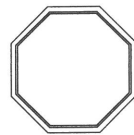
Isosceles Trapezoid



Parallelogram



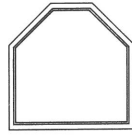
Peak Pentagon



Octagon



Hexagon



Unequal Hexagon

NOTES

The following general guidelines do not apply to every specialty shape. Contact your local supplier for specific limitations of the specialty shapes shown above or about creating custom shapes beyond those shown here.

Overall unit block size should not be larger than 50 sq. ft.

Frame width and height must be between 9" and 144".

Units can only be larger than 82" in one direction.

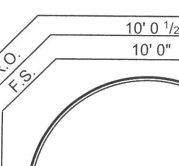
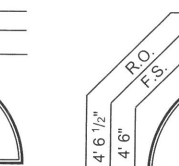
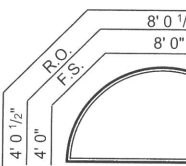
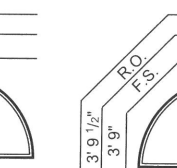
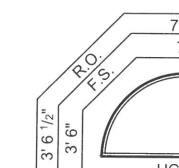
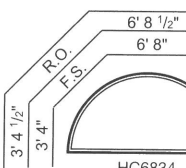
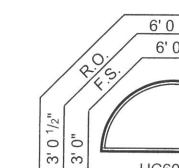
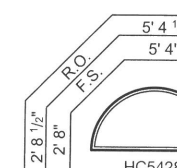
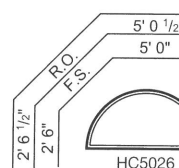
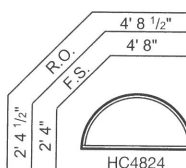
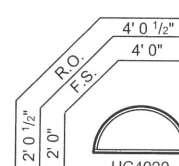
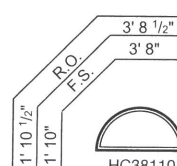
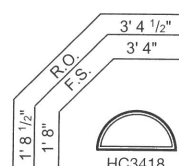
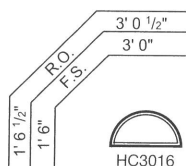
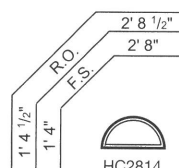
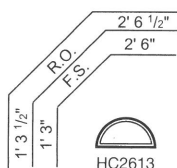
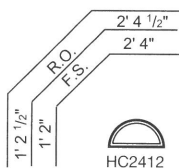
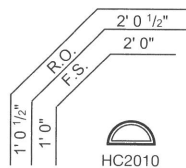
Corners/angles cannot be less than 27°.

Standard radiuses include:

1' 0"	3' 0"	7' 0"
1' 2"	3' 1"	7' 6"
1' 3"	3' 3"	8' 0"
1' 4"	3' 4"	9' 0"
1' 6"	3' 6"	10' 7"
1' 6-23/32"	3' 9"	12' 0"
1' 8"	4' 0"	13' 8"
1' 10"	4' 6"	15' 0"
2' 0"	5' 0"	16' 0"
2' 4"	5' 6"	17' 10"
2' 6"	6' 0"	19' 8"
2' 8"	6' 6"	
2' 10-19/32"		

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Half Circle Window Sizes



NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

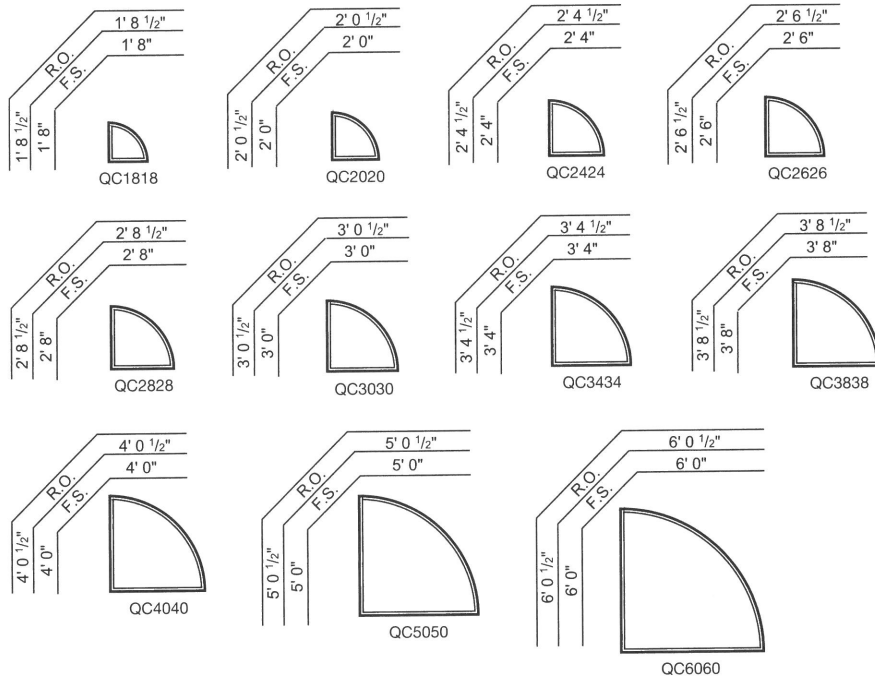
Some limitations exist for light patterns for removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. Please contact your local supplier for more information. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

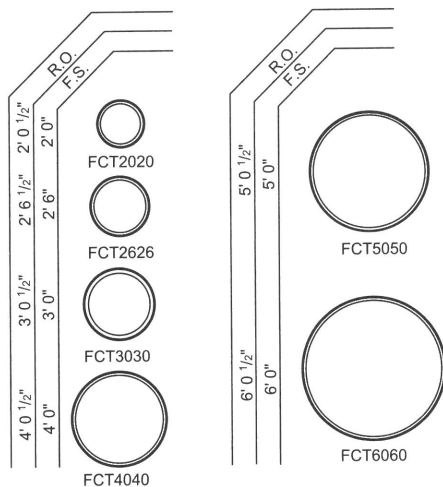
FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

SPECIALTY WINDOWS

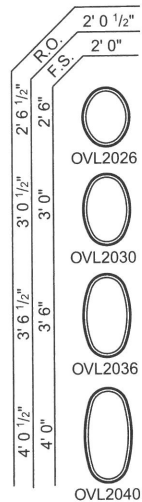
Quarter Circle Window Sizes



Circle Window Sizes



Oval Window Sizes



NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

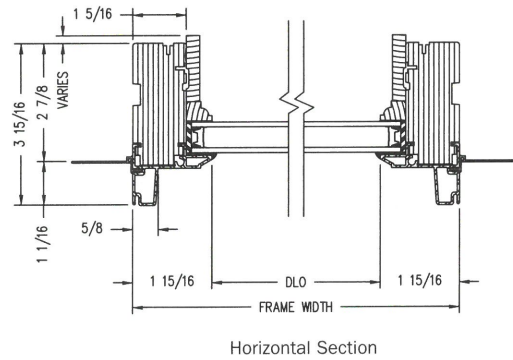
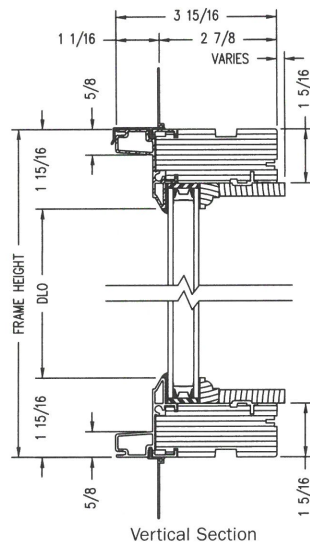
Some limitations exist for light patterns for removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. Please contact your local supplier for more information. All wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

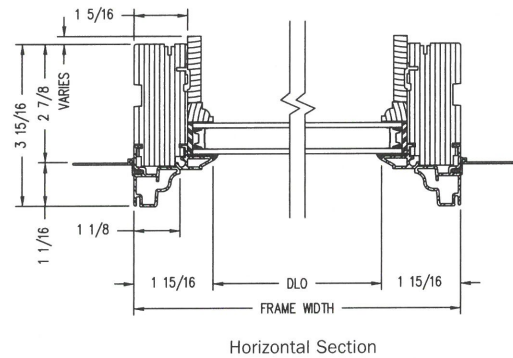
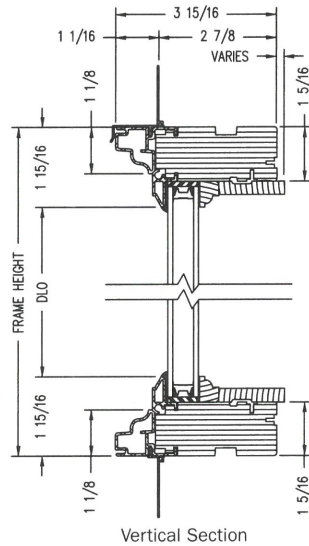
FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
 A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
 ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Specialty Windows

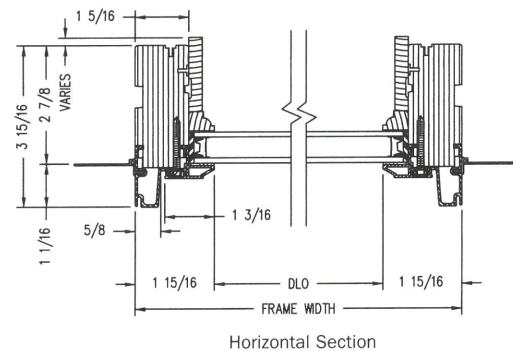
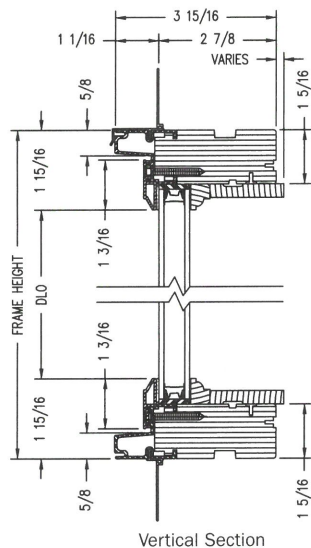
Specialty



Specialty (Double-Hung Frame Profile)



Exterior Glazed Specialty



PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

Bottom and intermediate rail options are just the start to this door's solid design.

Select contemporary or French styling, go as high as 10 feet, add venting inswing or outswing sidelights or raised solid wood panel inserts and create a truly custom look.

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Custom sizing is available.





HINGED PATIO DOORS

FEATURES

HINGED PATIO DOORS

FRAME & PANEL

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany,* maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

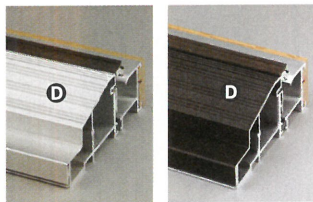
C The frame perimeter consists of a high-quality foam-filled weatherstrip.

Inswing and outswing doors receive a factory-applied vinyl installation flange with drip cap. Some inswing patio doors require an adjustable metal installation flange. Optional aluminum flanges and metal installation clips are available.

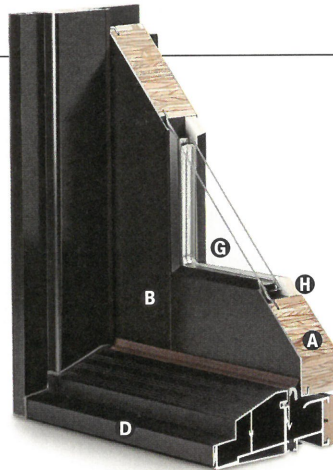
SILL

Drainage Sill for Inswing Patio Doors

D Premium grade aluminum inswing sill with an oak threshold. Sills have a built-in drainage channel that allows water to drain away from the interior of the door. A top plate is removable for easy channel cleaning. A polyurethane thermal barrier helps reduce heat loss. Available in clear anodized or dark bronze anodized finish, shown below.



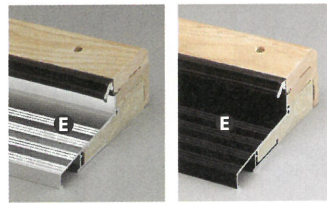
Drainage sills for inswing



Inswing Patio Door with Contemporary Panel

On-Floor Sill for Outswing Patio Doors

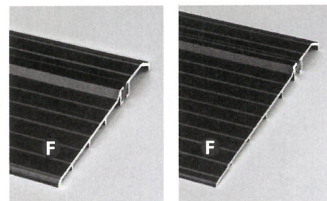
E Premium grade aluminum outswing sill with oak threshold. Outswing door sill is backed with a compression foam weatherstrip. Available in clear anodized or dark bronze anodized finish, shown below.



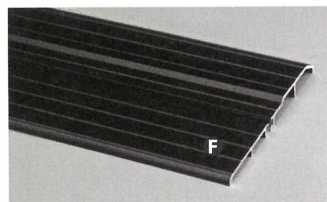
On-floor sills for outswing

Low-Threshold Sill

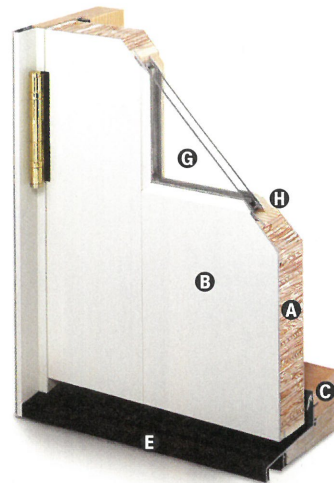
F Aluminum low threshold sill available for outswing doors and inswing doors. Available for inswing doors with jamb depths of 4 1/16" and 6 1/16". Low threshold design provides a smooth transition from interior to exterior and is wheelchair-accessible. A polyurethane thermal barrier helps reduce heat loss. Available in dark bronze anodized finish, shown below.



4 1/16" & 6 1/16" Low-threshold sills for inswing



4 1/16" Low-threshold sill for outswing



Outswing Patio Door with French Panel

GLASS

G High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

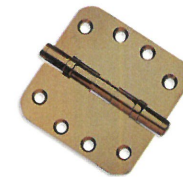
H Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Multi-Point Locking System

Autolatch® stainless steel multi-point locking system locks the panel in three locations to provide a secure, weather-resistant entry system. Some door heights lock the panel in four locations.

Hinges



Heavy-duty commercial grade hinges are available in finishes of antique brass, black, bright brass, satin chrome, pewter, gold dust, oil rubbed bronze, bright chrome, stainless steel, and white to go with your handle set. Hinges are complete with matching screws. An innovative hinge shimming system allows for minor adjustments.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

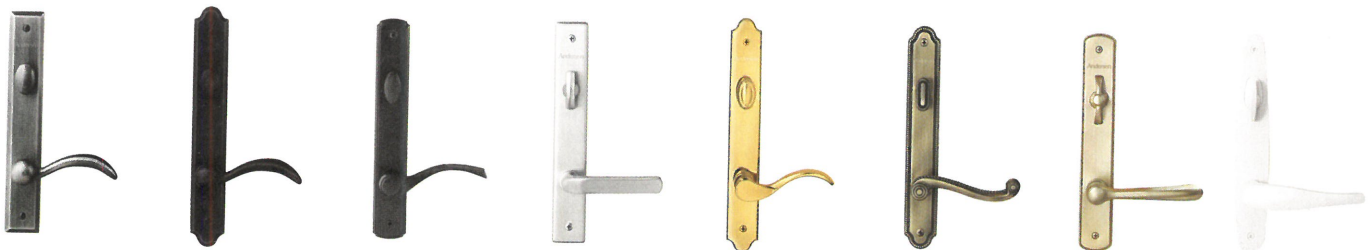
FACTORY-FINISHED INTERIORS



INTERIOR PAINTED OPTIONS

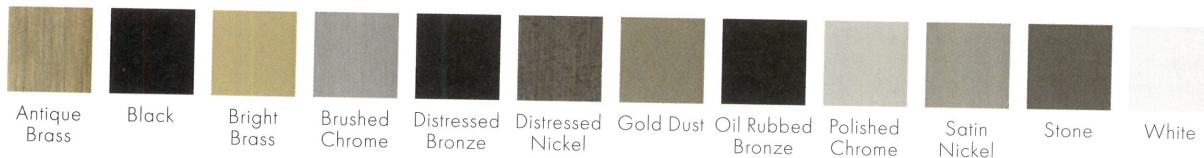


HARDWARE OPTIONS



YUMA®	ENCINO®	NEWBURY®	ANVERS®	COVINGTON™	WHITMORE®	ALBANY	TRIBECA®
Distressed Bronze Distressed Nickel	Distressed Bronze Distressed Nickel	Antique Brass Bright Brass Brushed Chrome Oil Rubbed Bronze Polished Chrome Satin Nickel	Bright Brass Oil Rubbed Bronze Satin Nickel	Antique Brass Bright Brass Oil Rubbed Bronze	Antique Brass Bright Brass Oil Rubbed Bronze Satin Nickel	Black Gold Dust Stone White	Black Stone White

HARDWARE FINISHES



Distressed bronze and oil rubbed bronze is a "living" finish that will change with time and use.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies. Matching hinges available in most hardware finishes for inswing patio doors.

Mix and match interior and exterior style and finish options are available, excludes FSB hardware.

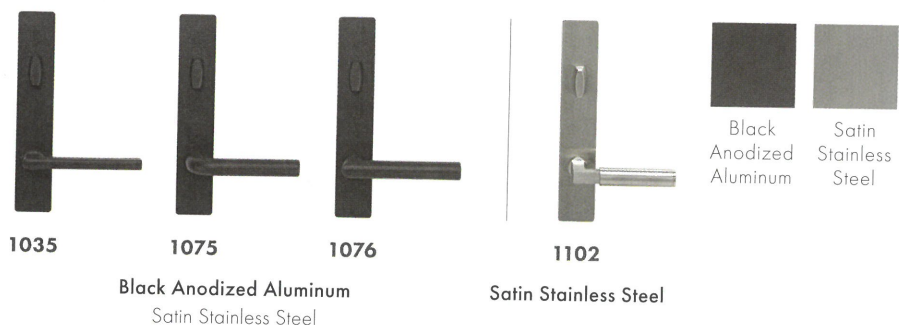
Bright brass and satin nickel finishes feature a 10-year limited warranty.

Tribeca and Albany hardware are zinc diecast with powder-coated durable finish, other hardware is solid forged brass.

Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

"FSB" is a registered trademark of Franz Schneider Brakel GmbH & Co.

FSB® HARDWARE & FINISHES



E-Series Hinged
Patio Doors

HINGED PATIO DOORS

FEATURES

HINGED PATIO DOORS

RAISED PANEL INSERTS



Available in $\frac{1}{2}$ and $\frac{3}{4}$ light options. Real wood, available in all wood species, makes up the interior panel insert. The exterior panel insert is made of formed aluminum cladding and is available in all 50 exterior colors and any custom color.

The raised panel inserts are based on the standard 8" bottom rail with $4\frac{1}{16}$ " stiles. Available in nine widths to match standard door panel sizes.

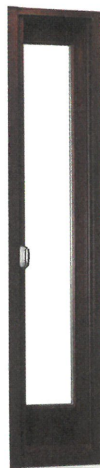
Additional intermediate rail options available allowing glass lights to be placed above and below the intermediate rail.

TRANSOMS



Available in two jamb depths to align with your inswing door jamb depth. Design is sloped for water disbursement. Inswing and outswing sash-set transoms are available with $2\frac{3}{4}$ ", $3\frac{1}{16}$ ", $4\frac{1}{16}$ " and $6\frac{1}{2}$ " stiles to match your door.

SIDELIGHTS



Outswing venting sidelights have concealed locks and operate with our convenient folding operator handles. Interior wood-veneered insect screen can be customized to match your interior wood species and finish.

Inswing venting sidelights come with special hardware that locks in the center and complements the door's handle set. When the handle is activated upwards, shoot bolts engage at the head and sill for added security. Inswing venting sidelights feature an exterior insect screen.

Non-venting direct-set and sash-set sidelights are also available for both inswing and outswing patio doors.

CENTER POST DOOR



Allows door panels to be hinged at the center or at the jamb. Available in two jamb depths: $4\frac{9}{16}$ " and $6\frac{9}{16}$ ".

The center post is clad laminated veneer lumber (LVL) that provides exceptional structural integrity. A top-hung gliding insect screen is available on the inswing center post door.

COMMERCIAL DOOR PANELS

Available in single or double door applications. The commercial door panel has a 12" bottom rail, $6\frac{1}{2}$ " stiles and optional $5\frac{5}{16}$ " intermediate rail.

CONCEALED PANIC SYSTEM DOOR



We have created an innovative Concealed Panic System (CPS), eliminating the need for a center astragal and exposed vertical rods on double doors. This system provides a clear opening while maintaining a sleek, uncluttered interior look. The system locks at the head and sill for added security. You get the same warm, real wood interior you've come to expect from us without the unsightly clutter common to most commercial doors.

We've also aligned with Von Duprin®, the most recognized and trusted brand of commercial hardware in the window and door industry. Von Duprin, along with the Ingersoll-Rand family of brands, provides premium push bars, handle sets, closers and kick plates to make the CPS door truly innovative. Plus, our doors are factory-prepped, making installation much easier.

ACCESSORIES Sold Separately

HINGED PATIO DOORS

HARDWARE

Construction Handle



Temporary construction handle is sent with all hinged patio doors. This handle allows operation during the construction phase, protecting finished hardware from damage or jobsite theft.

Hardware Options

Additional hardware options such as exterior keyed locks and more are also available. Contact your Andersen supplier.

SENSORS

Yale® Assure Lock®

Monitor, lock and unlock from anywhere with the Yale Assure Lock. The sleek keyless lock includes Bluetooth® technology for key-free unlocking and is compatible with Z-Wave® for integration with a wide range of smart home platforms. Available on select hinged doors, see your Andersen supplier for details.

VeriLock® Security Sensors

VeriLock sensors are unique as they detect whether the doors are locked or unlocked* — a feature no other sensors can provide. Available in all hardware finishes.

Open/Closed Sensors

Wireless open/closed sensors are available in four colors.

See page 27 for Smart Home options.

INSECT SCREENS

Retractable Insect Screens



Concealed, retractable insect screen has charcoal fiberglass screen mesh. Available for inswing single or double door units. Insect screen rolls out when needed and retracts into concealed housing when not in use. Available in 50 exterior colors.

Retractable insect screens for outswing doors are field applied to the interior of the door. Available in five colors including white, almond, desert sand, bronze and black.

Hinged Insect Screens for Inswing Patio Doors

Charcoal fiberglass screen mesh fits into an aluminum frame in 50 exterior colors. Provided with a black lockable latch and automatic closer for smooth operation. Available in single or multiple door units. Aluminum screen mesh is also available.

Top-Hung Gliding Insect Screens for Inswing Center Post Patio Doors

Charcoal fiberglass screen mesh fits into an aluminum frame available in 50 exterior colors. Aluminum screen mesh is also available.

PRIVACY OPTIONS

Blinds-Between-the-Glass

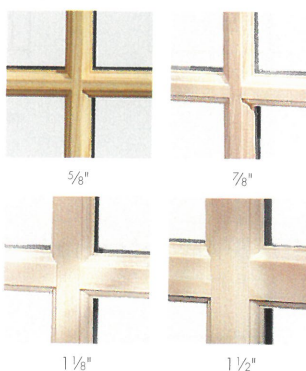


A 5/8" aluminum slat blind mounted between two panes of insulated glass in a dust-free environment. Available in white, tan and almond. Blinds are magnetically controlled and can be tilted or raised and lowered with one cord.** Not available on arch patio doors.

GRILLES

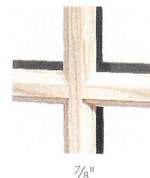
Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2" or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



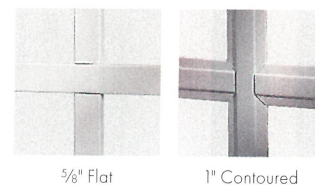
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2" or 2 1/4" widths and ovolo or contemporary profile. Ovolo profile shown below, not all widths are pictured.



Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

*When properly configured and maintained with a professionally installed security system and/or self-monitoring system compatible with Honeywell® 5800 controls. See your Andersen supplier for more information.

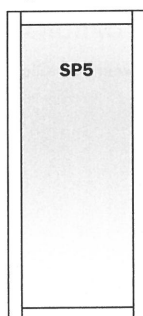
**Not all sizes are retractable. See your local Andersen supplier for details.

Hinged Patio Door Panel Labeling

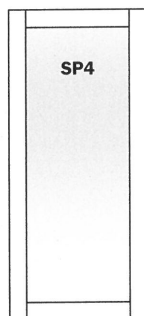
Door Panel Options

Andersen® E-Series offers a wide range of door styles to accommodate any home project style. Both contemporary and French panel styles are available to complement traditional or modern architecture.

Hinged Patio Door Contemporary Panels

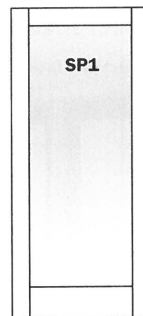


3 1/16" stiles & rails

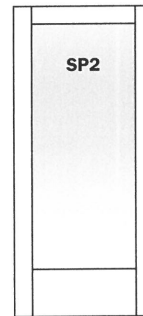


4 1/16" stiles & rails

Hinged Patio Door French Panels

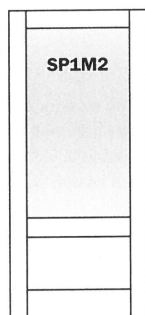


4 1/16" stiles, 4 1/16" top rail & 8" bottom rail

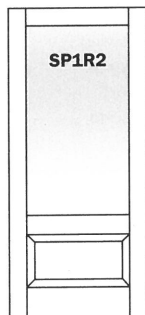


4 1/16" stiles, 4 1/16" top rail & 12" bottom rail

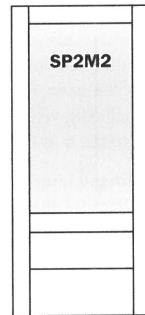
Panels with 5 5/16" Intermediate Rail 23 1/4" from Bottom of Panel



4 1/16" stiles, 4 1/16" top rail & 8" bottom rail

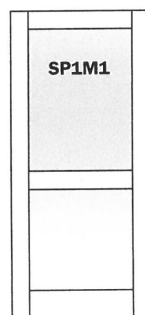


4 1/16" stiles, 4 1/16" top rail, 8" bottom rail & raised panel insert

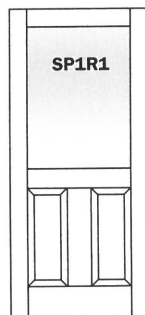


4 1/16" stiles, 4 1/16" top rail & 12" bottom rail

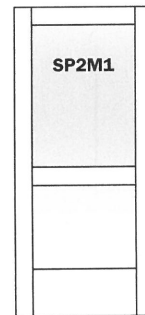
Panels with 5 5/16" Intermediate Rail 35" from Bottom of Panel



4 1/16" stiles, 4 1/16" top rail & 8" bottom rail

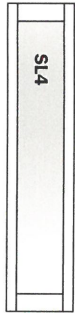


4 1/16" stiles, 4 1/16" top rail, 8" bottom rail & raised panel insert

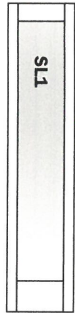


4 1/16" stiles, 4 1/16" top rail & 12" bottom rail

Sidelight Panels

Contemporary Panel


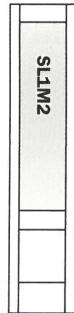
2 3/4" stiles
4 1/16" top rail
& bottom rail

French Panels


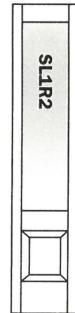
2 3/4" stiles
4 1/16" top rail
8" bottom rail



2 3/4" stiles
4 1/16" top rail
12" bottom rail

5 5/16" Intermediate Rail 23 1/4" from Bottom of Panel


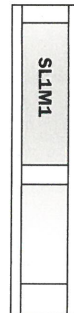
2 3/4" stiles
4 1/16" top rail
8" bottom rail



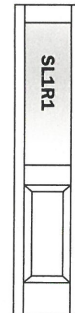
2 3/4" stiles
4 1/16" top rail
8" bottom rail &
raised panel insert



2 3/4" stiles
4 1/16" top rail
12" bottom rail

5 5/16" Intermediate Rail 35" from Bottom of Panel


2 3/4" stiles
4 1/16" top rail
8" bottom rail



2 3/4" stiles
4 1/16" top rail
8" bottom rail &
raised panel insert



2 3/4" stiles
4 1/16" top rail
12" bottom rail

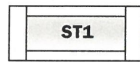
Transom Panels



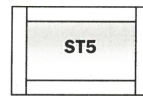
2 3/4" stiles & rails



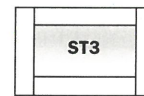
2 3/4" stiles & 4 1/16" rails



4 1/16" stiles & 2 3/4" rails

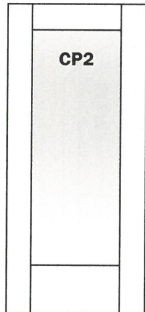


3 1/16" stiles & rails

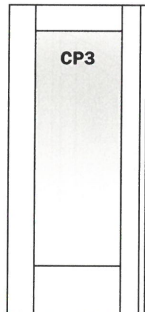


4 1/16" stiles & rails

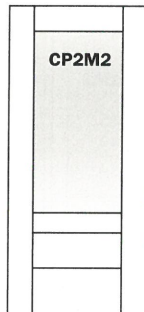
Commercial Door, Sidelight & Transom Panels*



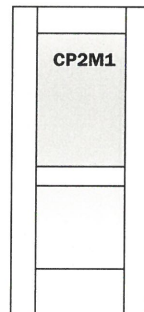
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail



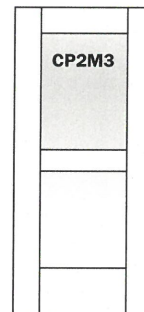
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail
Concealed Panic System



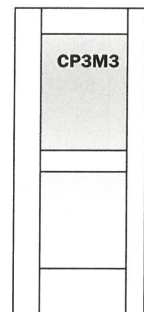
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
23 1/4" from bottom of panel



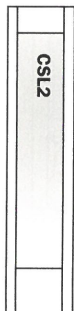
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
35" from bottom of panel



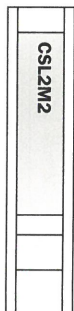
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
39" from bottom of panel



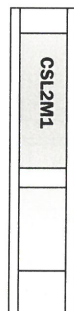
6 1/2" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
39" from bottom of panel
Concealed Panic System



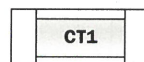
2 3/4" stiles,
6 1/2" top rail &
12" bottom rail



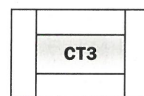
2 3/4" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
23 1/4" from bottom of panel



2 3/4" stiles, 6 1/2" top rail
& 12" bottom rail with
5 5/16" intermediate rail
35" from bottom of panel



6 1/2" stiles & 2 3/4" rails



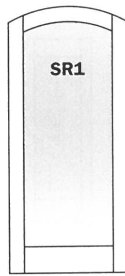
6 1/2" stiles & rails



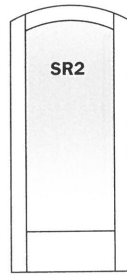
2 3/4" stiles & 6 1/2" rails

* Also available for residential applications.

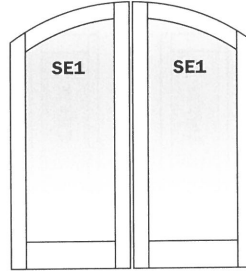
Arch Panels



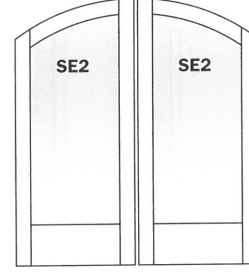
4 1/16" stiles, 4 1/16" top rail
& 8" bottom rail



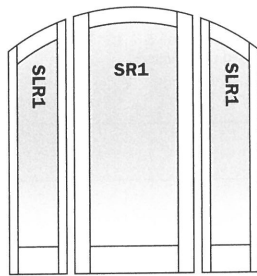
4 1/16" stiles, 4 1/16" top rail
& 12" bottom rail



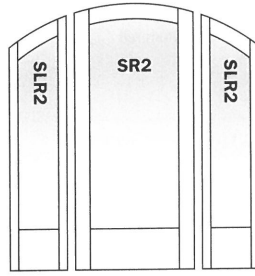
4 1/16" stiles, 4 1/16" top rail
& 8" bottom rail



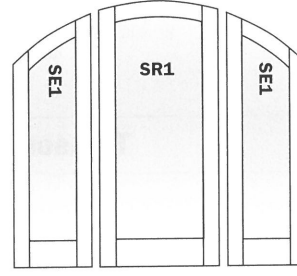
4 1/16" stiles, 4 1/16" top rail
& 12" bottom rail



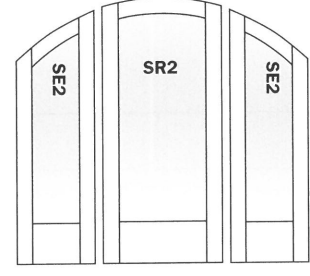
2 3/4" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
8" bottom rail 8" bottom rail



2 3/4" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
12" bottom rail 12" bottom rail



4 1/16" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
8" bottom rail 8" bottom rail

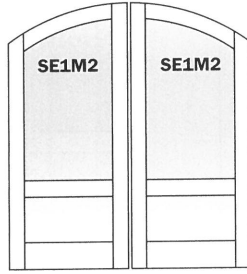


4 1/16" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
12" bottom rail 12" bottom rail

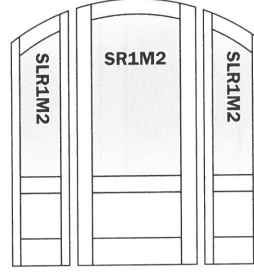
Arch Panels with 5 5/16" Intermediate Rail 23 1/4" from Bottom of Panel



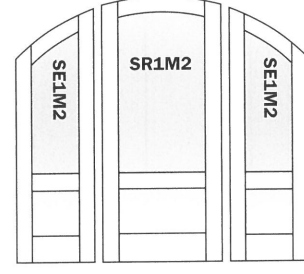
4 1/16" stiles, 4 1/16" top rail
& 8" bottom rail



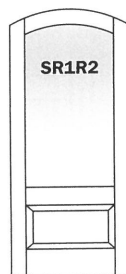
4 1/16" stiles, 4 1/16" top rail
& 8" bottom rail



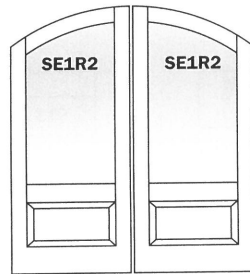
2 3/4" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
8" bottom rail 8" bottom rail



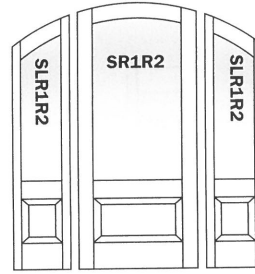
4 1/16" stiles 4 1/16" stiles
4 1/16" top rail 4 1/16" top rail
8" bottom rail 8" bottom rail



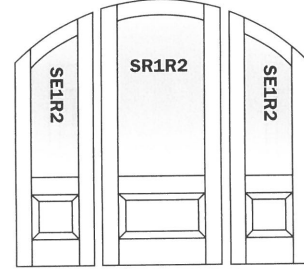
4 1/16" stiles, 4 1/16" top rail,
8" bottom rail &
raised panel insert



4 1/16" stiles, 4 1/16" top rail,
8" bottom rail &
raised panel inserts

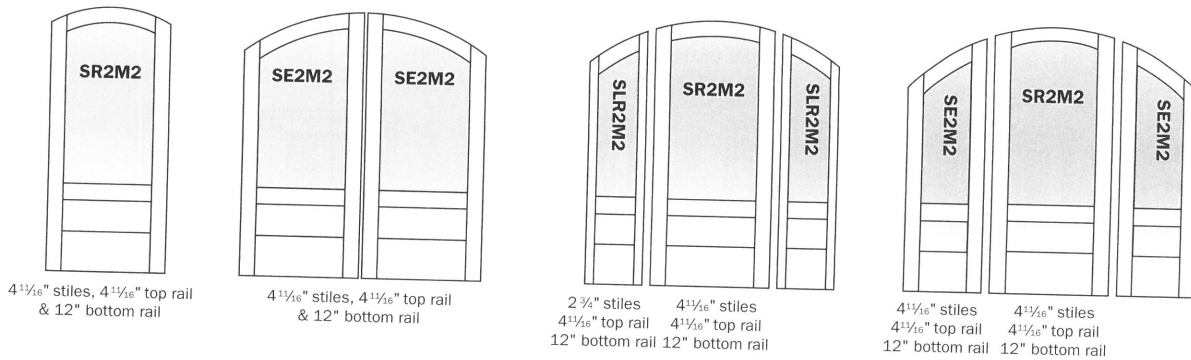


2 3/4" stiles, 4 1/16" stiles,
4 1/16" top rail, 8" bottom rail
& raised panel insert

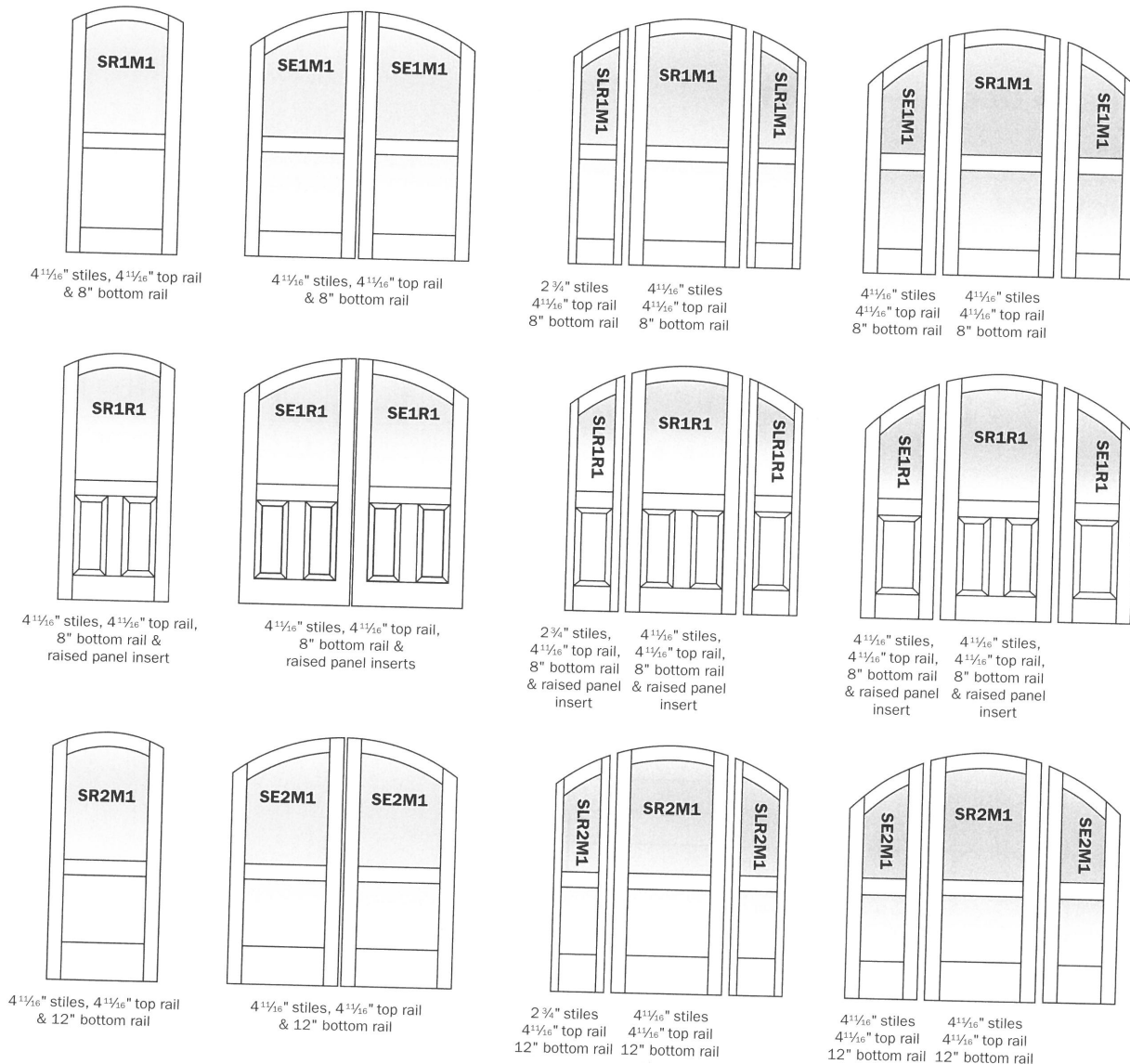


4 1/16" stiles, 4 1/16" stiles,
4 1/16" top rail, 8" bottom rail
& raised panel insert

Arch Panels with 5⁵/₁₆" Intermediate Rail 23¹/₄" from Bottom of Panel (Continued)



Arch Panels with 5⁵/₁₆" Intermediate Rail 35" from Bottom of Panel

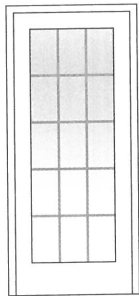


Hinged Patio Door Handing

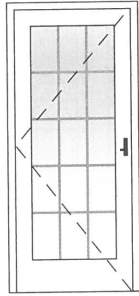
The door handing and order designation noted below and on the opposite page is consistent with the handing of other Andersen® doors and is used throughout the remainder of the hinged patio doors section.

Identification

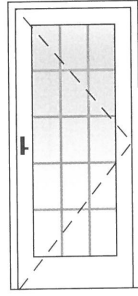
All hinged doors are **viewed from the exterior**. From left to right, choose stationary, active or passive, then choose hinge location.



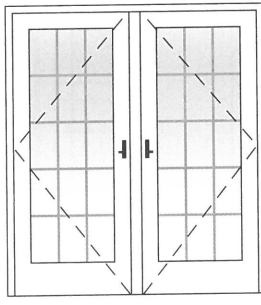
Stationary Panel
Non-operating panel.



Left Hinged
Hinges mounted on the left side of the panel.



Right Hinged
Hinges mounted on the right side of the panel.



Active Panel **Passive Panel**
The operating panel most often used. The operating panel with astragal attached.

Hinged Patio Doors — Inswing

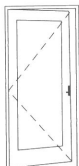
Handing Options

Single Door



S

Stationary Panel



A

Left Hinged
Active Panel



A

Active Panel

R

Right Hinged

Double Door

(shown as APLR)



A

Active Panel

P

Passive Panel

L

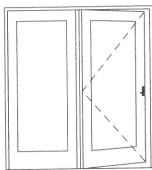
Left Hinged

R

Right Hinged

Center Post Door

(shown as hinged off astragal)



S

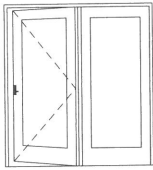
Stationary Panel

A

Active Panel

L

Left Hinged



A

Active Panel

S

Stationary Panel

R

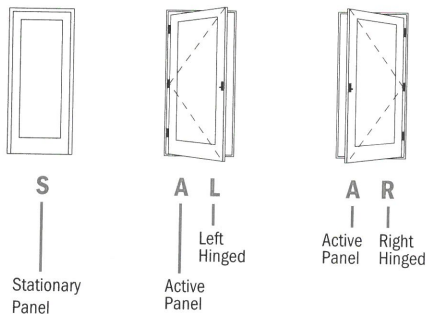
Right Hinged

Order Designation Description	
	As Viewed From Exterior
Single Door	S
	AL
	AR
Double Door	PALR
	APLR
	SS
Center Post Door – Hinged Off Jamb	SAR
	ASL
Center Post Door – Hinged Off Astragal	SAL
	ASR

Hinged Patio Doors — Outswing

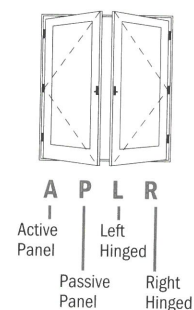
Handing Options

Single Door



Double Door

(shown as APLR)



Order Designation Description	
	As Viewed From Exterior
Single Door	S
	AR
	AL
Double Door	APLR
	PALR
	SS

HINGED PATIO DOORS

Single Hinged Inswing Patio Door & Sidelight Sizes

		2' 1"	2' 7"	2' 9"	3' 1"	3' 3"
		2' 0 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"
RO FS	6' 8 1/2"					
	6' 8"	AFDI 2068 S,AL,AR	AFDI 2668 S,AL,AR	AFDI 2868 S,AL,AR	AFDI 3068 S,AL,AR	AFDI 3268 S,AL,AR
	6' 10 1/2"					
	6' 10"	AFDI 20610 S,AL,AR	AFDI 26610 S,AL,AR	AFDI 28610 S,AL,AR	AFDI 30610 S,AL,AR	AFDI 32610 S,AL,AR
	7' 0 1/2"					
	7' 0"	AFDI 2070 S,AL,AR	AFDI 2670 S,AL,AR	AFDI 2870 S,AL,AR	AFDI 3070 S,AL,AR	AFDI 3270 S,AL,AR
	7' 3 1/2"					
	7' 3"	AFDI 2073 S,AL,AR	AFDI 2673 S,AL,AR	AFDI 2873 S,AL,AR	AFDI 3073 S,AL,AR	AFDI 3273 S,AL,AR
	8' 0 1/2"					
	8' 0"	AFDI 2080 S,AL,AR	AFDI 2680 S,AL,AR	AFDI 2880 S,AL,AR	AFDI 3080 S,AL,AR	AFDI 3280 S,AL,AR
	8' 3 1/2"					
	8' 3"	AFDI 2083 S,AL,AR	AFDI 2683 S,AL,AR	AFDI 2883 S,AL,AR	AFDI 3083 S,AL,AR	AFDI 3283 S,AL,AR

NOTES

All doors and sidelights use safety/tempered glass.

The minimum vertical joining material width for doors and sidelights is 1/2".

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grille-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Inswing Frame Height (using Low Threshold Sill)

= Standard Inswing Frame Height – 15/16"

FORMULA FOR COMBINATION DOORS

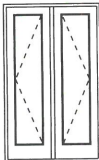
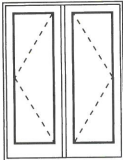
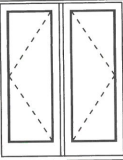
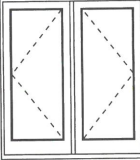
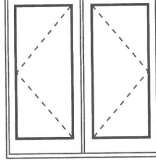
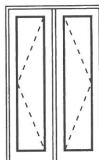
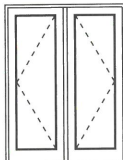
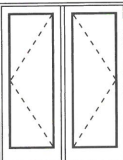
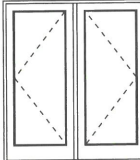
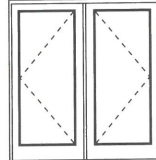
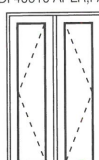
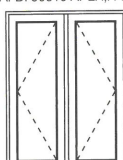
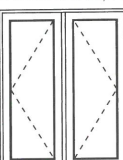
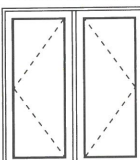
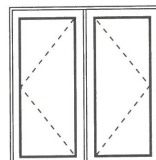
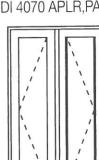
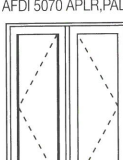
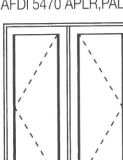
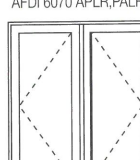
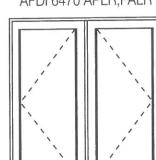
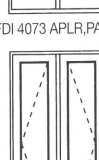



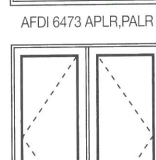



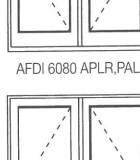
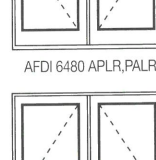
The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Double Hinged Inswing Patio Door Sizes

	4' 0 1/2"	5' 0 1/2"	5' 4 1/2"	6' 0 1/2"	6' 4 1/2"
	4' 0"	5' 0"	5' 4"	6' 0"	6' 4"
6' 8 1/2"					
	AFDI 4068 APLR, PALR	AFDI 5068 APLR, PALR	AFDI 5468 APLR, PALR	AFDI 6068 APLR, PALR	AFDI 6468 APLR, PALR
6' 10 1/2"					
	AFDI 40610 APLR, PALR	AFDI 50610 APLR, PALR	AFDI 54610 APLR, PALR	AFDI 60610 APLR, PALR	AFDI 64610 APLR, PALR
7' 0 1/2"					
	AFDI 4070 APLR, PALR	AFDI 5070 APLR, PALR	AFDI 5470 APLR, PALR	AFDI 6070 APLR, PALR	AFDI 6470 APLR, PALR
7' 3 1/2"					
	AFDI 4073 APLR, PALR	AFDI 5073 APLR, PALR	AFDI 5473 APLR, PALR	AFDI 6073 APLR, PALR	AFDI 6473 APLR, PALR
8' 0 1/2"					
	AFDI 4080 APLR, PALR	AFDI 5080 APLR, PALR	AFDI 5480 APLR, PALR	AFDI 6080 APLR, PALR	AFDI 6480 APLR, PALR
8' 3 1/2"					
	AFDI 4083 APLR, PALR	AFDI 5083 APLR, PALR	AFDI 5483 APLR, PALR	AFDI 6083 APLR, PALR	AFDI 6483 APLR, PALR

NOTES

All doors and sidelights use safety/tempered glass.

The minimum vertical joining material width for doors and sidelights is 1/2".

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Inswing Frame Height (using Low Threshold Sill)

= Standard Inswing Frame Height - 15/16"

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

ALSO AVAILABLE AS:

Stationary Doors SS
Center Post Doors SAR, ASL, SAL, ASR

HINGED PATIO DOORS

Inswing Sash-Set Sidelight Sizes

		1' 3"	1' 5"	1' 7"	1' 9"
		1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
R.O. F.S.	6' 8 1/2"				
	6' 8"				
	6' 10 1/2"				
	6' 10"				
	7' 0 1/2"				
	7' 0"				
	7' 3 1/2"				
	7' 3"				
	8' 0 1/2"				
	8' 0"				
	8' 3 1/2"				
	8' 3"				

NOTES

All doors and sidelights use safety/tempered glass.

The minimum vertical joining material width for doors and sidelights is 1/2". When joining a venting sidelight to a door, the minimum vertical joining material width is 2".

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Inswing Direct-Set Sidelight Sizes

		1' 3"	1' 5"	1' 7"	1' 9"
		1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
R.O. F.S.	6' 8 1/2"				
	6' 8"				
	6' 10 1/2"				
	6' 10"				
	7' 0 1/2"				
	7' 0"				
	7' 3 1/2"				
	7' 3"				
	8' 0 1/2"				
	8' 0"				
	8' 3 1/2"				
	8' 3"				

Inswing Frame Height (using Low Threshold Sill)

= Standard Inswing Frame Height – 15/16"

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Inswing Patio Door Sash-Set Transom Sizes

R.O. F.S.	2' 1"	2' 7"	2' 9"	3' 1"	3' 3"	4' 0 1/2"	5' 0 1/2"	5' 4 1/2"	6' 0 1/2"	6' 4 1/2"
	2' 0 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	4' 0"	5' 0"	5' 4"	6' 0"	6' 4"
1' 2"										
1' 4"										
1' 6"										
1' 8"										
2' 0"										
2' 4"										
2' 6"										
2' 8"										
3' 0"										

Hinged Inswing Patio Door Sash-Set Transom Sizes

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
1' 2"				
1' 4"				
1' 6"				
1' 8"				
2' 0"				

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
2' 4"				
2' 6"				
2' 8"				
3' 0"				

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

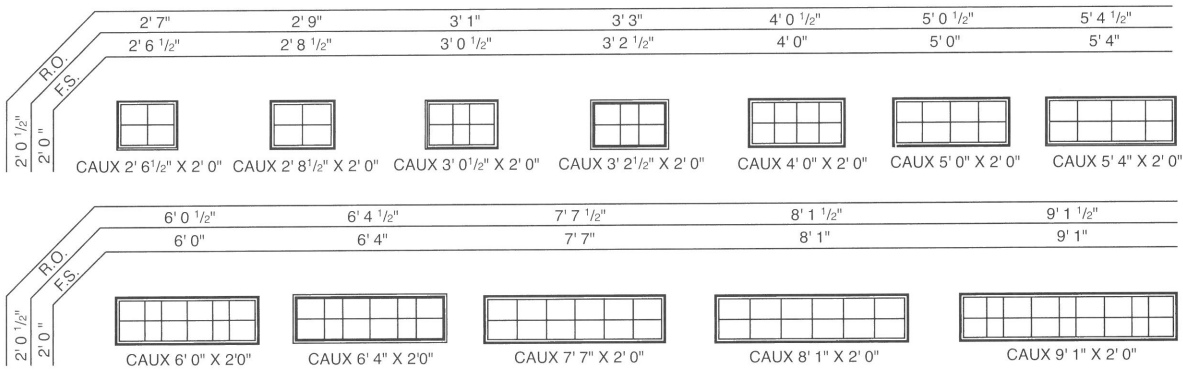
The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

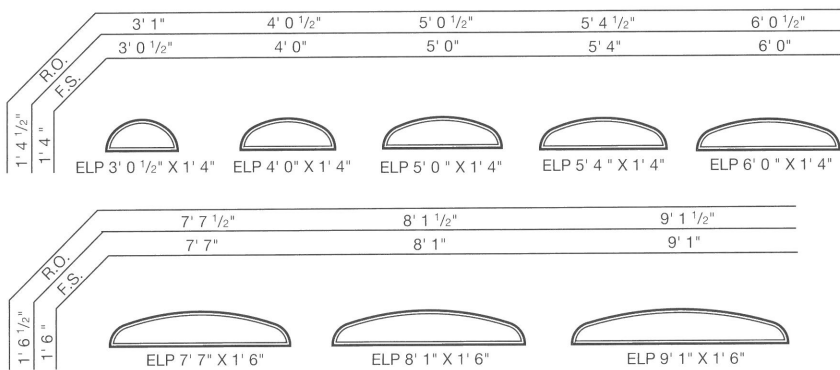
FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

Hinged Inswing Patio Door Direct-Set Transom Sizes (Specialty Frame)



Hinged Inswing Patio Door Direct-Set Elliptical Sizes (Specialty Frame)



NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

2' 6-1/2" wide transoms are used above 2668, 26610 or 2680 Hinged Inswing Patio Doors.

2' 8-1/2" wide transoms are used above 2868, 28610 or 2880 Hinged Inswing Patio Doors.

3' 0-1/2" wide transoms are used above 3068, 30610 or 3080 Hinged Inswing Patio Doors.

4' 0" wide transoms are used above 4068, 40610 or 4080 Hinged Inswing Patio Doors.

5' 0" wide transoms are used above 5068, 50610 or 5080 Hinged Inswing Patio Doors.

5' 4" wide transoms are used above 5468, 54610 or 5480 Hinged Inswing Patio Doors.

6' 0" wide transoms are used above 6068, 60610 or 6080 Hinged Inswing Patio Doors.

7' 7" wide transoms are used above 5068/50610/5080 Hinged Inswing Patio Doors with 2668/26610/2680 Sidelights.

8' 1" wide transoms are used above 5468/54610/5480 Hinged Inswing Patio Doors with 2868/28610/2880 Sidelights.

9' 1" wide transoms are used above 6068/60610/6080 Hinged Inswing Patio Doors with 3068/30610/3080 Sidelights.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

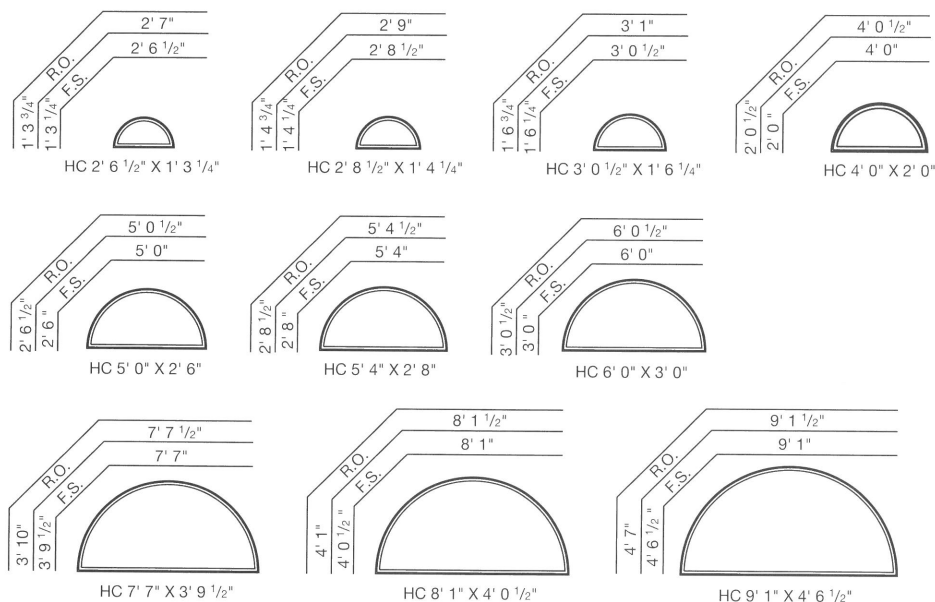
The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Inswing Patio Door Direct-Set Half Circle Sizes (Specialty Frame)



Hinged Inswing Patio Door Direct-Set Transom Sizes

	2' 1"	2' 7"	2' 9"	3' 1"	3' 3"	4' 0 1/2"	5' 0 1/2"	5' 4 1/2"	6' 0 1/2"	6' 4 1/2"
	2' 0 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	4' 0"	5' 0"	5' 4"	6' 0"	6' 4"
ADGU2012	ADGU2612	ADGU2812	ADGU3012	ADGU3212	ADGU4012	ADGU5012	ADGU5412	ADGU6012	ADGU6412	
ADGU2014	ADGU2614	ADGU2814	ADGU3014	ADGU3214	ADGU4014	ADGU5014	ADGU5414	ADGU6014	ADGU6414	
ADGU2016	ADGU2616	ADGU2816	ADGU3016	ADGU3216	ADGU4016	ADGU5016	ADGU5416	ADGU6016	ADGU6416	
ADGU2018	ADGU2618	ADGU2818	ADGU3018	ADGU3218	ADGU4018	ADGU5018	ADGU5418	ADGU6018	ADGU6418	
ADGU2020	ADGU2620	ADGU2820	ADGU3020	ADGU3220	ADGU4020	ADGU5020	ADGU5420	ADGU6020	ADGU6420	

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

2' 6 1/2" wide transoms are used above 2668, 26610 or 2680 Hinged Inswing Patio Doors.

2' 8 1/2" wide transoms are used above 2868, 28610 or 2880 Hinged Inswing Patio Doors.

3' 0 1/2" wide transoms are used above 3068, 30610 or 3080 Hinged Inswing Patio Doors.

4' 0" wide transoms are used above 4068, 40610 or 4080 Hinged Inswing Patio Doors.

5' 0" wide transoms are used above 5068, 50610 or 5080 Hinged Inswing Patio Doors.

5' 4" wide transoms are used above 5468, 54610 or 5480 Hinged Inswing Patio Doors.

6' 0" wide transoms are used above 6068, 60610 or 6080 Hinged Inswing Patio Doors.

7' 7" wide transoms are used above 5068/50610/5080 Hinged Inswing Patio Doors with 2668/26610/2680 Sidelights.

8' 1" wide transoms are used above 5468/54610/5480 Hinged Inswing Patio Doors with 2868/28610/2880 Sidelights.

9' 1" wide transoms are used above 6068/60610/6080 Hinged Inswing Patio Doors with 3068/30610/3080 Sidelights.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

Hinged Inswing Patio Door Direct-Set Transom Sizes

R.O. F.S.	2' 1"	2' 7"	2' 9"	3' 1"	3' 3"	4' 0 1/2"	5' 0 1/2"	5' 4 1/2"	6' 0 1/2"	6' 4 1/2"
	2' 0 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"	4' 0"	5' 0"	5' 4"	6' 0"	6' 4"
2' 4 1/2"										
2' 6"										
2' 8"										
3' 0 1/2"										
3' 0"										

Hinged Inswing Patio Door Direct-Set Transom Sizes

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
1' 2 1/2"				
1' 4"				
1' 6"				
1' 8"				
2' 0"				
2' 4"				
2' 6"				
2' 8"				
3' 0 1/2"				
3' 0"				

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

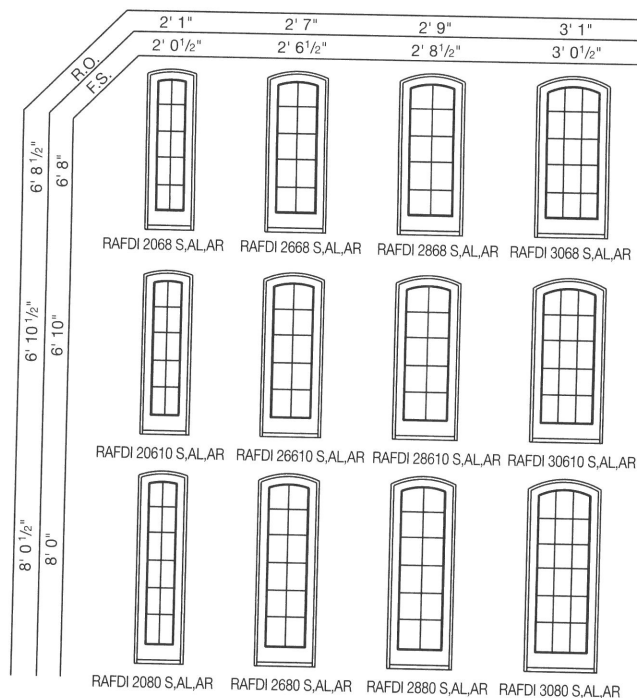
The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Single Arch Inswing Patio Door & Sidelight Sizes



NOTES

All doors and sidelights use safety/tempered glass.

Single doors have a 3' 0" radius.

Double doors have a 5' 0" radius.

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Inswing Frame Height (using Low Threshold Sill)

= Standard Inswing Frame Height - 15/16"

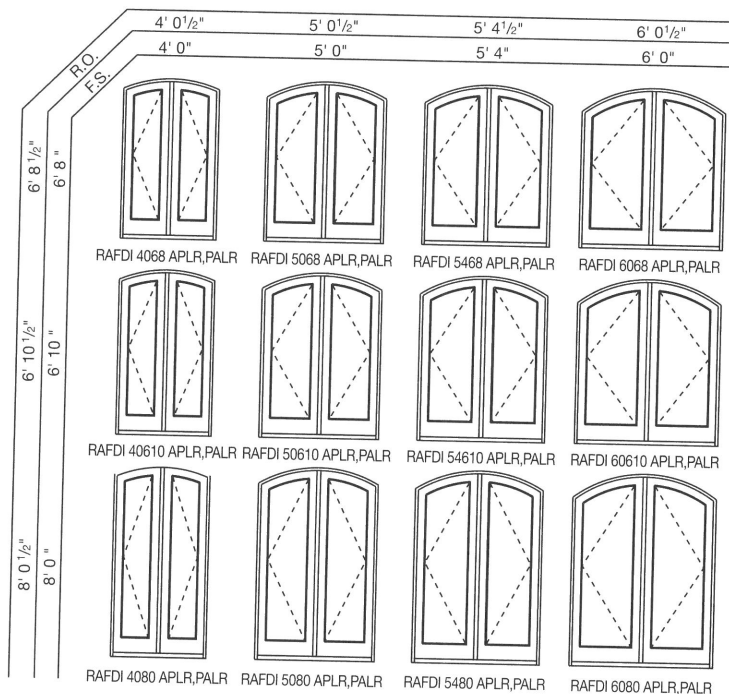
FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

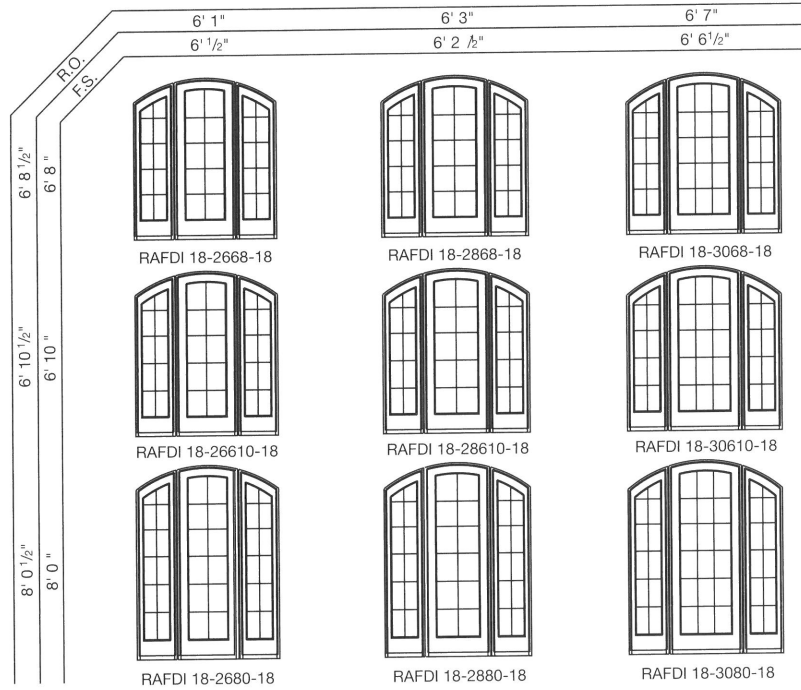
Any unit within each combination can be operating or stationary except for direct-set units and transoms.

Double Arch Inswing Patio Door Sizes



HINGED PATIO DOORS

3-Wide Arch Inswing Patio Door & Sidelight Sizes



NOTES

All doors and sidelights use safety/tempered glass.

3-wide doors have a 5' 0" radius.

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Inswing Frame Height Formula (using Low Threshold Sill)

= Standard Inswing Frame Height - 15/16"

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

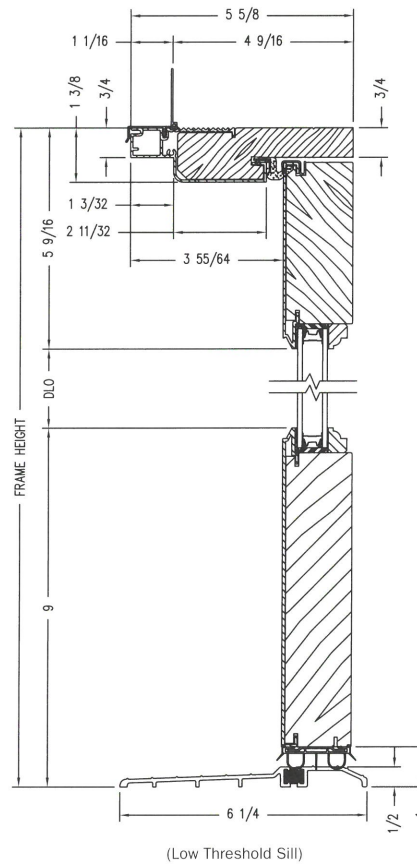
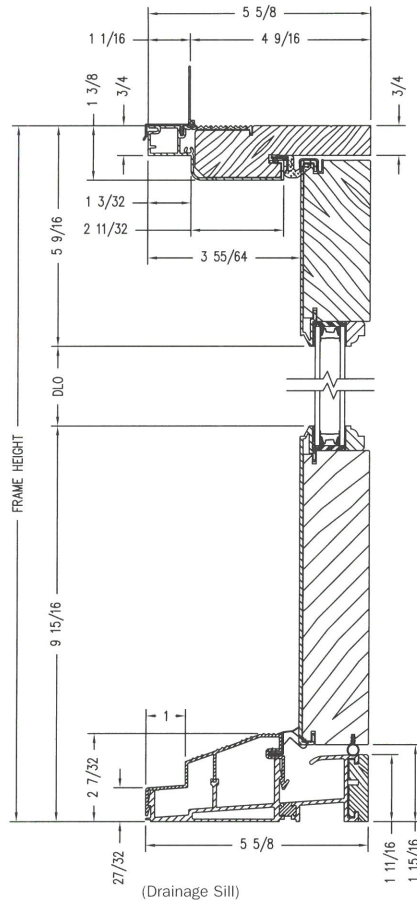
The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for arch sidelights.

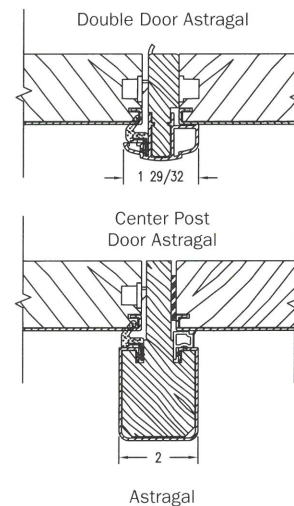
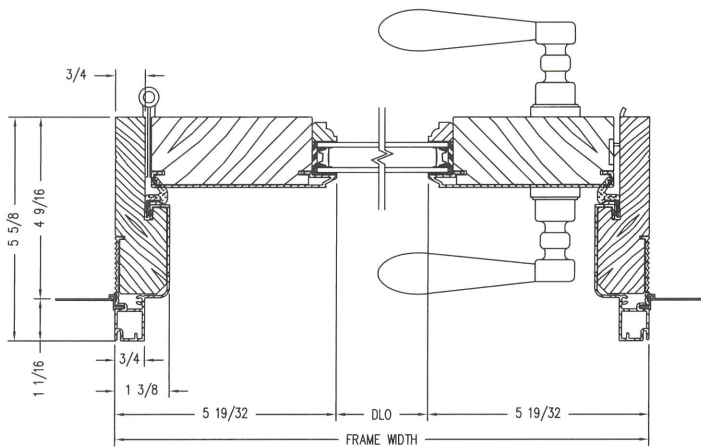
CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Inswing Patio Doors (4 9/16" Jamb Depth)

Hinged Inswing Patio Door



Vertical Section



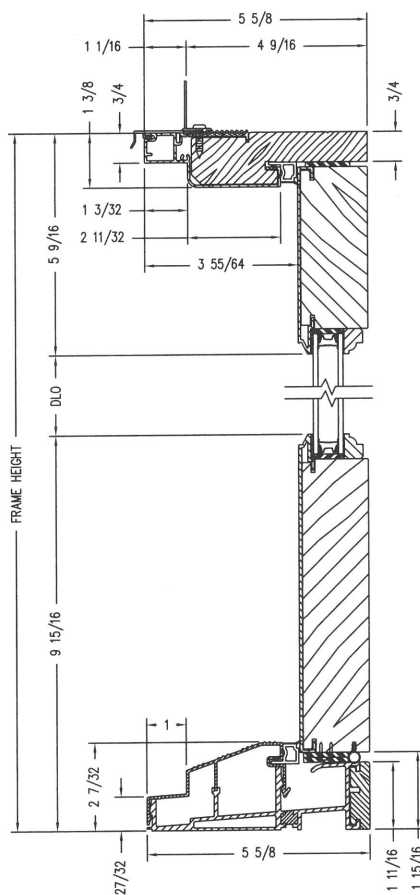
Horizontal Section

Shown with ovolo (colonial) glass stops.
French panel shown, also available with a contemporary panel.

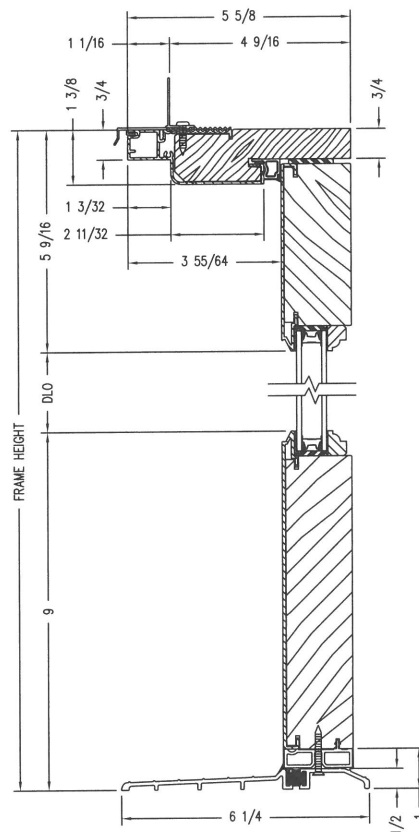
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Inswing Patio Doors (4 9/16" Jamb Depth)

Inswing Sash-Set Sidelight

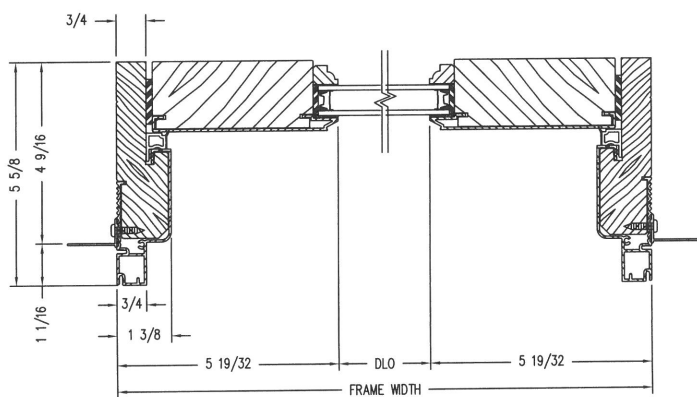


(Drainage Sill)

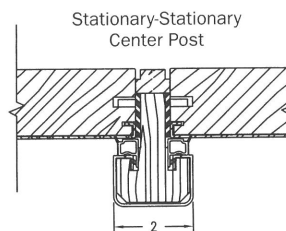


(Low Threshold Sill)

Vertical Section



Horizontal Section



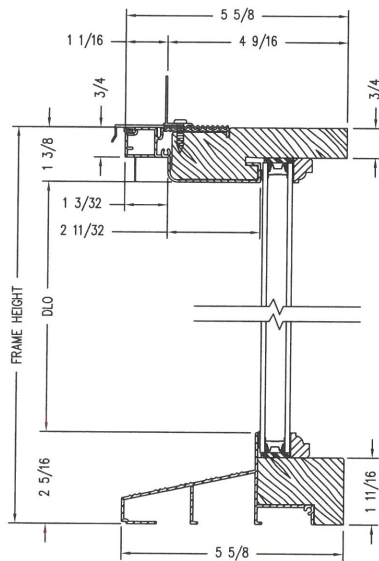
Astragal

Shown with ovolo (colonial) glass stops.

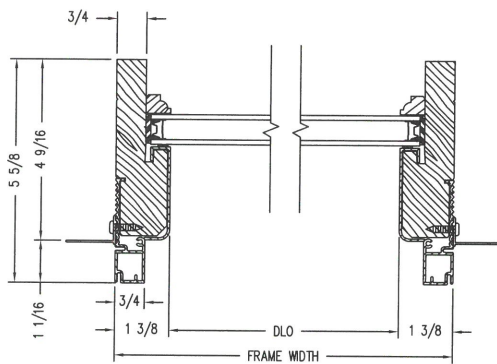
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Inswing Patio Doors (4 9/16" Jamb Depth)

Inswing Direct-Set Sidelight

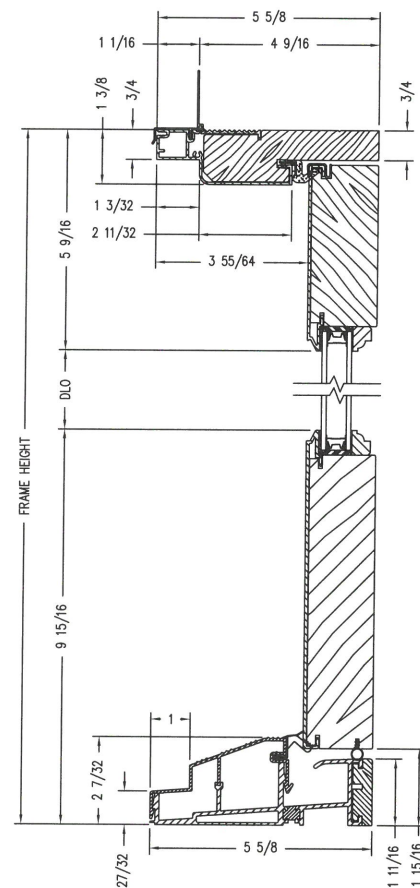


Vertical Section

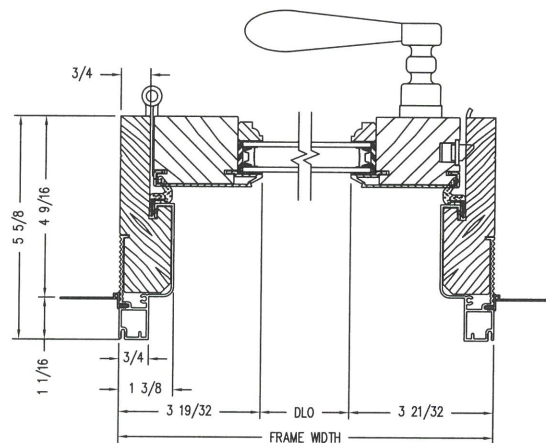


Horizontal Section

Inswing Venting Sidelight



Vertical Section



Horizontal Section

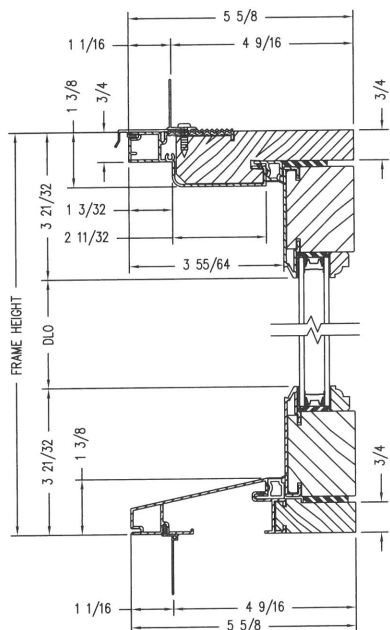
Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

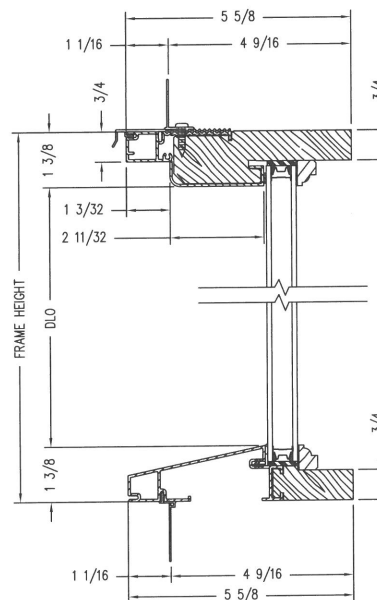
Hinged Inswing Patio Doors (4 9/16" Jamb Depth)

Inswing Sash-Set Transom

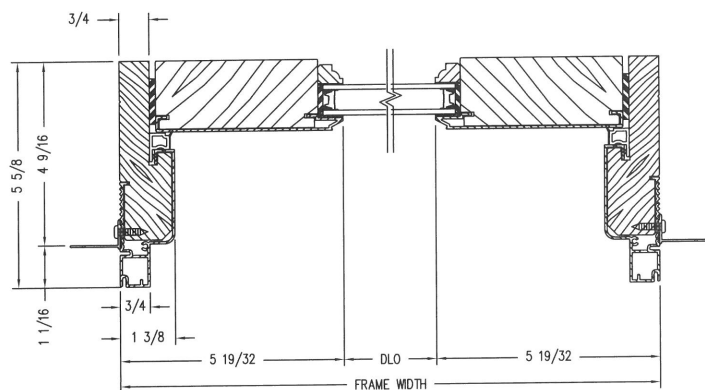


Vertical Section

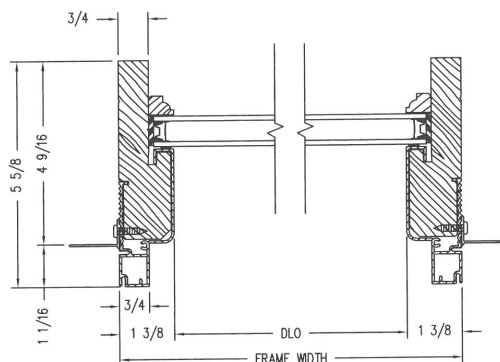
Inswing Direct-Set Transom



Vertical Section



Horizontal Section



Horizontal Section

Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Technical drawing of a window frame cross-section, showing dimensions and components. The drawing is oriented vertically with the frame height on the left and the sill on the right.

Dimensions (Vertical):

- FRAME HEIGHT: 9 15/16
- 27/32
- 2 7/32
- 1 1/16
- 1 3/8
- 3/4
- 1 3/32
- 4 11/32
- 5 9/16
- 0.0
- 1 15/16
- 1 15/16

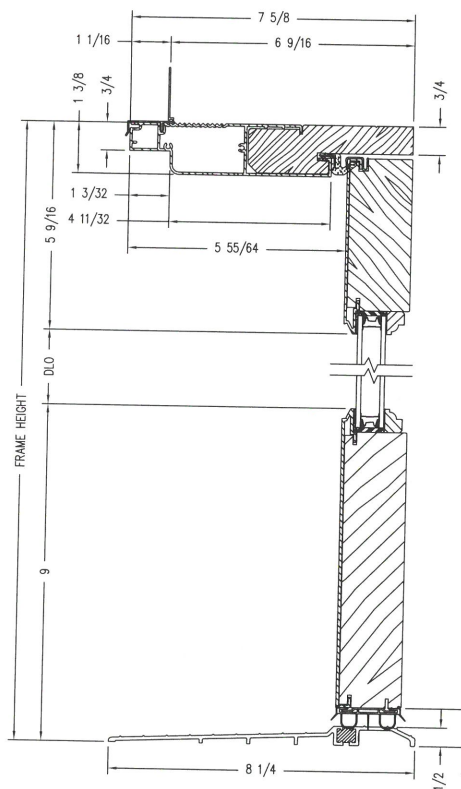
Dimensions (Horizontal):

- 7 5/8
- 6 9/16
- 5 55/64
- 7 5/8

Components and Features:

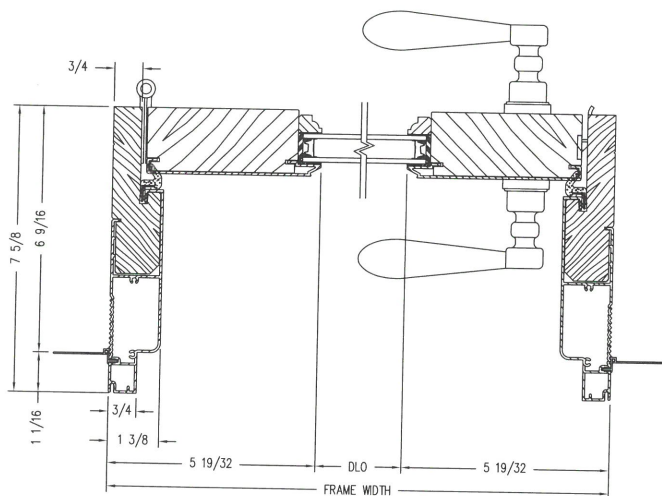
- Window frame assembly with multiple panes.
- Weatherstripping and seals.
- Drainage sill with a sloped surface and drainage holes.
- Structural supports and fasteners.

(Drainage Sill)

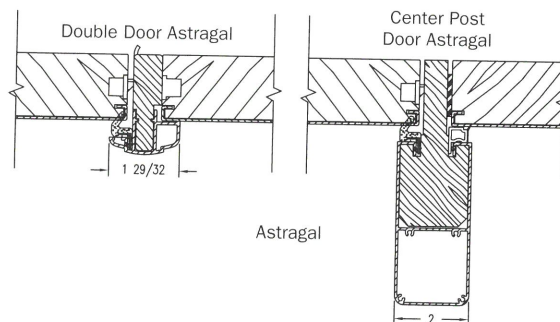


(Low Threshold Sill)

Vertical Section



Horizontal Section



Astragal

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

Hinged Inswing Patio Door Handing (As Viewed From Exterior)

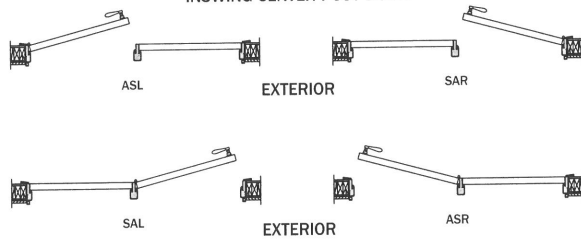
INSWING SINGLE DOOR



INSWING DOUBLE DOOR

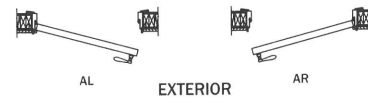


INSWING CENTER POST DOOR



Hinged Outswing Patio Door Handing (As Viewed From Exterior)

OUTSWING SINGLE DOOR



OUTSWING DOUBLE DOOR



Double Hinged Outswing Patio Door Sizes

	4' 0 ⁹ / ₁₆ "	5' 0 ⁹ / ₁₆ "	5' 4 ⁹ / ₁₆ "	6' 0 ⁹ / ₁₆ "	6' 4 ⁹ / ₁₆ "
	4' 0 ¹ / ₁₆ "	5' 0 ¹ / ₁₆ "	5' 4 ¹ / ₁₆ "	6' 0 ¹ / ₁₆ "	6' 4 ¹ / ₁₆ "
6' 7 ¹³ / ₁₆ "					
	AFDO 4068 APLR, PALR	AFDO 5068 APLR, PALR	AFDO 5468 APLR, PALR	AFDO 6068 APLR, PALR	AFDO 6468 APLR, PALR
6' 9 ¹³ / ₁₆ "					
	AFDO 40610 APLR, PALR	AFDO 50610 APLR, PALR	AFDO 54610 APLR, PALR	AFDO 60610 APLR, PALR	AFDO 64610 APLR, PALR
6' 11 ¹³ / ₁₆ "					
	AFDO 4070 APLR, PALR	AFDO 5070 APLR, PALR	AFDO 5470 APLR, PALR	AFDO 6070 APLR, PALR	AFDO 6470 APLR, PALR
7' 2 ¹³ / ₁₆ "					
	AFDO 4073 APLR, PALR	AFDO 5073 APLR, PALR	AFDO 5473 APLR, PALR	AFDO 6073 APLR, PALR	AFDO 6473 APLR, PALR*
7' 11 ¹³ / ₁₆ "					
	AFDO 4080 APLR, PALR	AFDO 5080 APLR, PALR	AFDO 5480 APLR, PALR	AFDO 6080 APLR, PALR	AFDO 6480 APLR, PALR
8' 2 ¹³ / ₁₆ "					
	AFDO 4083 APLR, PALR	AFDO 5083 APLR, PALR	AFDO 5483 APLR, PALR	AFDO 6083 APLR, PALR	AFDO 6483 APLR, PALR*

NOTES

All doors and sidelights use safety/tempered glass.

The minimum vertical joining material width for doors and sidelights is 1/2".

*Commercial sized door panels.

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

























Any unit within each combination can be operating or stationary except for direct-set units and transoms.

Outswing Frame Height Formula (using Low Threshold Sill)

= Standard Outswing Frame Height – 7/16"

HINGED PATIO DOORS

Outswing Sash-Set Sidelight Sizes

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 1/2"	1' 4 1/2"	1' 6 1/2"	1' 8 1/2"
6' 7 13/16"				
6' 7 5/16"	AFDO 1268 S	AFDO 1468 S	AFDO 1668 S	AFDO 1868 S
6' 9 13/16"				
6' 9 5/16"	AFDO 12610 S	AFDO 14610 S	AFDO 16610 S	AFDO 18610 S
6' 11 13/16"				
6' 11 5/16"	AFDO 1270 S	AFDO 1470 S	AFDO 1670 S	AFDO 1870 S
7' 2 13/16"				
7' 2 5/16"	AFDO 1273 S	AFDO 1473 S	AFDO 1673 S	AFDO 1873 S
7' 11 13/16"				
7' 11 5/16"	AFDO 1280 S	AFDO 1480 S	AFDO 1680 S	AFDO 1880 S
8' 2 13/16"				
8' 2 5/16"	AFDO 1283 S	AFDO 1483 S	AFDO 1683 S	AFDO 1883 S

NOTES

All doors and sidelights use safety/tempered glass.

The minimum vertical joining material width for doors and sidelights is 1/2".
When joining a venting sidelight to a door, the minimum vertical joining material width is 2".

*Commercial sized door panels.


























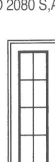




See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Single Hinged Outswing Patio Door & Sidelight Sizes

R.O. F.S.	2' 1"	2' 7"	2' 9"	3' 1"	3' 3"
	2' 0 1/2"	2' 6 1/2"	2' 8 1/2"	3' 0 1/2"	3' 2 1/2"
6' 7 13/16"					
6' 7 5/16"	AFDO 2068 S,AL,AR	AFDO 2668 S,AL,AR	AFDO 2868 S,AL,AR	AFDO 3068 S,AL,AR	AFDO 3268 S,AL,AR
6' 9 13/16"					
6' 9 5/16"	AFDO 20610 S,AL,AR	AFDO 26610 S,AL,AR	AFDO 28610 S,AL,AR	AFDO 30610 S,AL,AR	AFDO 32610 S,AL,AR
6' 11 13/16"					
6' 11 5/16"	AFDO 2070 S,AL,AR	AFDO 2670 S,AL,AR	AFDO 2870 S,AL,AR	AFDO 3070 S,AL,AR	AFDO 3270 S,AL,AR
7' 2 13/16"					
7' 2 5/16"	AFDO 2073 S,AL,AR	AFDO 2673 S,AL,AR	AFDO 2873 S,AL,AR	AFDO 3073 S,AL,AR	AFDO 3273 S,AL,AR*
7' 11 13/16"					
7' 11 5/16"	AFDO 2080 S,AL,AR	AFDO 2680 S,AL,AR	AFDO 2880 S,AL,AR	AFDO 3080 S,AL,AR	AFDO 3280 S,AL,AR
8' 2 13/16"					
8' 2 5/16"	AFDO 2083 S,AL,AR	AFDO 2683 S,AL,AR	AFDO 2883 S,AL,AR	AFDO 3083 S,AL,AR	AFDO 3283 S,AL,AR*

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Outswing Frame Height Formula (using Low Threshold Sill)

= Standard Outswing Frame Height - 7/16"

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

Hinged Outswing Patio Door Sash-Set Transom Sizes

R.O. F.S.	2' 1"	2' 7"	2' 9"	3' 1"	3' 3"	4' 0 ⁹ / ₁₆ "	5' 0 ⁹ / ₁₆ "	5' 4 ⁹ / ₁₆ "	6' 0 ⁹ / ₁₆ "	6' 4 ⁹ / ₁₆ "
	2' 0 ¹ / ₂ "	2' 6 ¹ / ₂ "	2' 8 ¹ / ₂ "	3' 0 ¹ / ₂ "	3' 2 ¹ / ₂ "	4' 0 ¹ / ₁₆ "	5' 0 ¹ / ₁₆ "	5' 4 ¹ / ₁₆ "	6' 0 ¹ / ₁₆ "	6' 4 ¹ / ₁₆ "
1' 2 ¹ / ₂ "	AFDFO2012	AFDFO2612	AFDFO2812	AFDFO3012	AFDFO3212	AFDFO4012	AFDFO5012	AFDFO5412	AFDFO6012	AFDFO6412
1' 4"	AFDFO2014	AFDFO2614	AFDFO2814	AFDFO3014	AFDFO3214	AFDFO4014	AFDFO5014	AFDFO5414	AFDFO6014	AFDFO6414
1' 6"	AFDFO2016	AFDFO2616	AFDFO2816	AFDFO3016	AFDFO3216	AFDFO4016	AFDFO5016	AFDFO5416	AFDFO6016	AFDFO6416
1' 8"	AFDFO2018	AFDFO2618	AFDFO2818	AFDFO3018	AFDFO3218	AFDFO4018	AFDFO5018	AFDFO5418	AFDFO6018	AFDFO6418
2' 0"	AFDFO2020	AFDFO2620	AFDFO2820	AFDFO3020	AFDFO3220	AFDFO4020	AFDFO5020	AFDFO5420	AFDFO6020	AFDFO6420
2' 4"	AFDFO2024	AFDFO2624	AFDFO2824	AFDFO3024	AFDFO3224	AFDFO4024	AFDFO5024	AFDFO5424	AFDFO6024	AFDFO6424
2' 6"	AFDFO2026	AFDFO2626	AFDFO2826	AFDFO3026	AFDFO3226	AFDFO4026	AFDFO5026	AFDFO5426	AFDFO6026	AFDFO6426
2' 8"	AFDFO2028	AFDFO2628	AFDFO2828	AFDFO3028	AFDFO3228	AFDFO4028	AFDFO5028	AFDFO5428	AFDFO6028	AFDFO6428
3' 0"	AFDFO2030	AFDFO2630	AFDFO2830	AFDFO3030	AFDFO3230	AFDFO4030	AFDFO5030	AFDFO5430	AFDFO6030	AFDFO6430

Hinged Outswing Patio Door Sash-Set Transom Sizes

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 ¹ / ₂ "	1' 4 ¹ / ₂ "	1' 6 ¹ / ₂ "	1' 8 ¹ / ₂ "
1' 2 ¹ / ₂ "	AFDFO1212	AFDFO1412	AFDFO1612	AFDFO1812
1' 4"	AFDFO1214	AFDFO1414	AFDFO1614	AFDFO1814
1' 6"	AFDFO1216	AFDFO1416	AFDFO1616	AFDFO1816
1' 8"	AFDFO1218	AFDFO1418	AFDFO1618	AFDFO1818
2' 0"	AFDFO1220	AFDFO1420	AFDFO1620	AFDFO1820

Hinged Outswing Patio Door Sash-Set Transom Sizes

R.O. F.S.	1' 3"	1' 5"	1' 7"	1' 9"
	1' 2 ¹ / ₂ "	1' 4 ¹ / ₂ "	1' 6 ¹ / ₂ "	1' 8 ¹ / ₂ "
2' 4"	AFDFO1224	AFDFO1424	AFDFO1624	AFDFO1824
2' 6"	AFDFO1226	AFDFO1426	AFDFO1626	AFDFO1826
2' 8"	AFDFO1228	AFDFO1428	AFDFO1628	AFDFO1828
3' 0"	AFDFO1230	AFDFO1430	AFDFO1630	AFDFO1830

NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

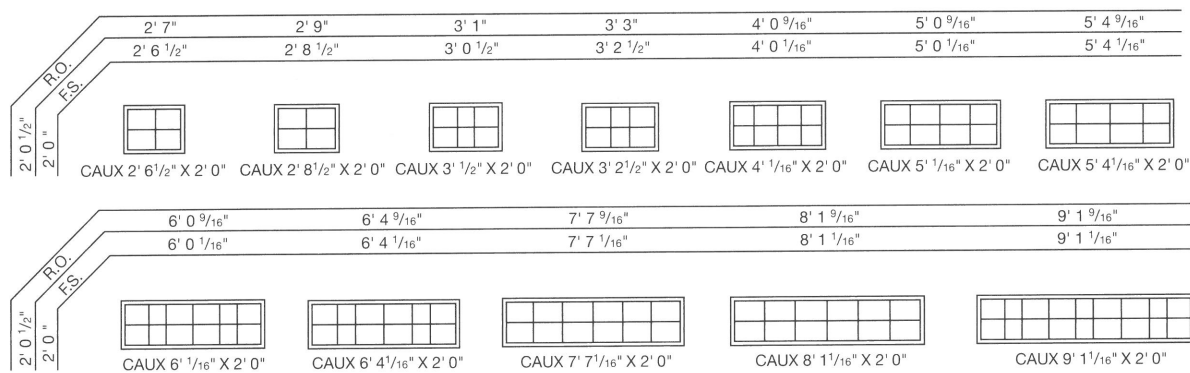
The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for direct-set units and transoms.

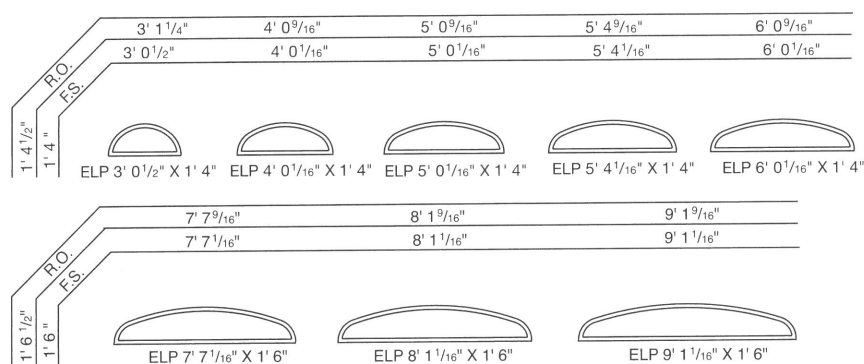
FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

HINGED PATIO DOORS

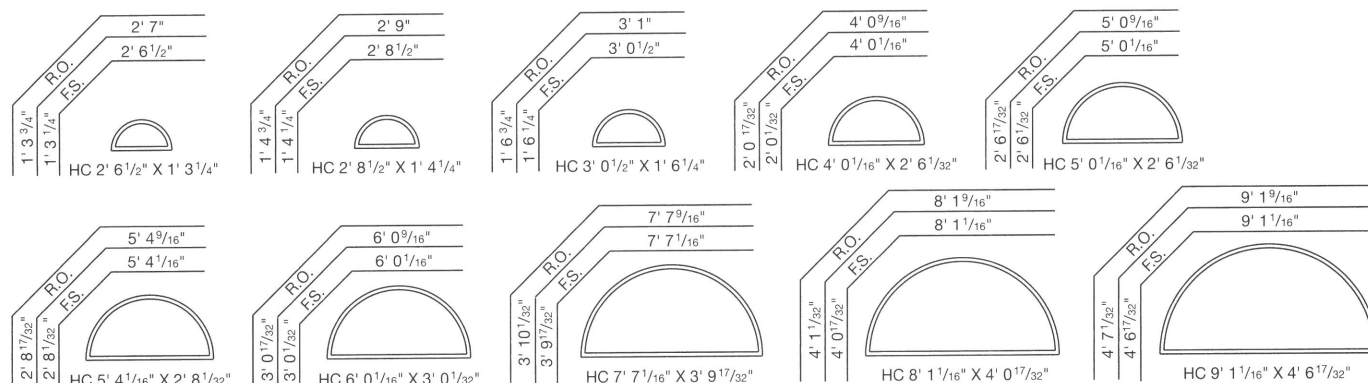
Hinged Outswing Patio Door Direct-Set Transom Sizes (Specialty Frame)



Hinged Outswing Patio Door Direct-Set Elliptical Sizes (Specialty Frame)



Hinged Outswing Patio Door Direct-Set Half Circle Sizes (Specialty Frame)



NOTES

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

2' 6-1/2" wide transoms are used above 2668, 26610 or 2680 Hinged Outswing Patio Doors.

2' 8-1/2" wide transoms are used above 2868, 28610 or 2880 Hinged Outswing Patio Doors.

3' 0-1/2" wide transoms are used above 3068, 30610 or 3080 Hinged Outswing Patio Doors.

4' 0" wide transoms are used above 4068, 40610 or 4080 Hinged Outswing Patio Doors.

5' 0" wide transoms are used above 5068, 50610 or 5080 Hinged Outswing Patio Doors.

5' 4" wide transoms are used above 5468, 54610 or 5480 Hinged Outswing Patio Doors.

6' 0" wide transoms are used above 6068, 60610 or 6080 Hinged Outswing Patio Doors.

7' 7" wide transoms are used above 5068/50610/5080 Hinged Outswing Patio Doors with 2668/26610/2680 Sidelights.

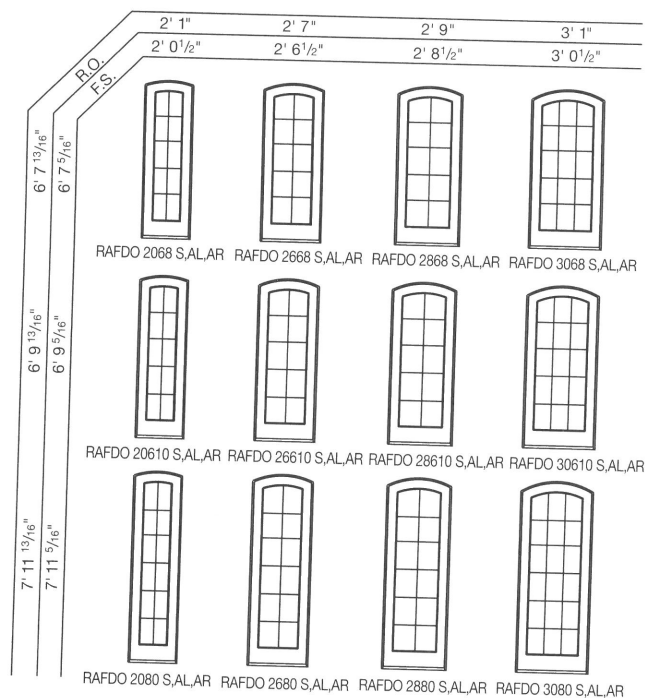
8' 1" wide transoms are used above 5468/54610/5480 Hinged Outswing Patio Doors with 2868/28610/2880 Sidelights.

9' 1" wide transoms are used above 6068/60610/6080 Hinged Outswing Patio Doors with 3068/30610/3080 Sidelights.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in double doors. Other light patterns are available upon request.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Single Arch Outswing Patio Door & Sidelight Sizes



NOTES

All doors and sidelights use safety/tempered glass.

Single doors have a 3' 0" radius.

Double doors have a 5' 0" radius.

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Outswing Frame Height Formula (using Low Threshold Sill)

= Standard Outswing Frame Height - 7/16"

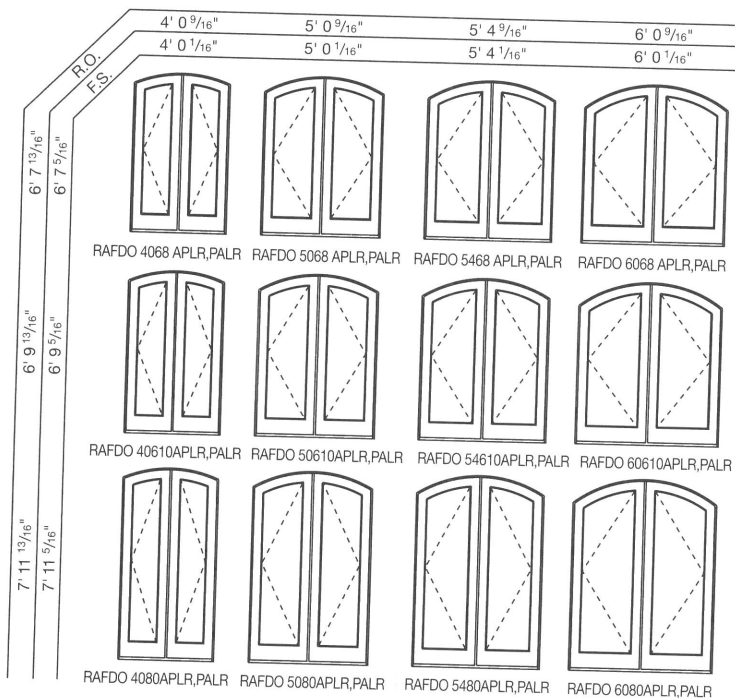
FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

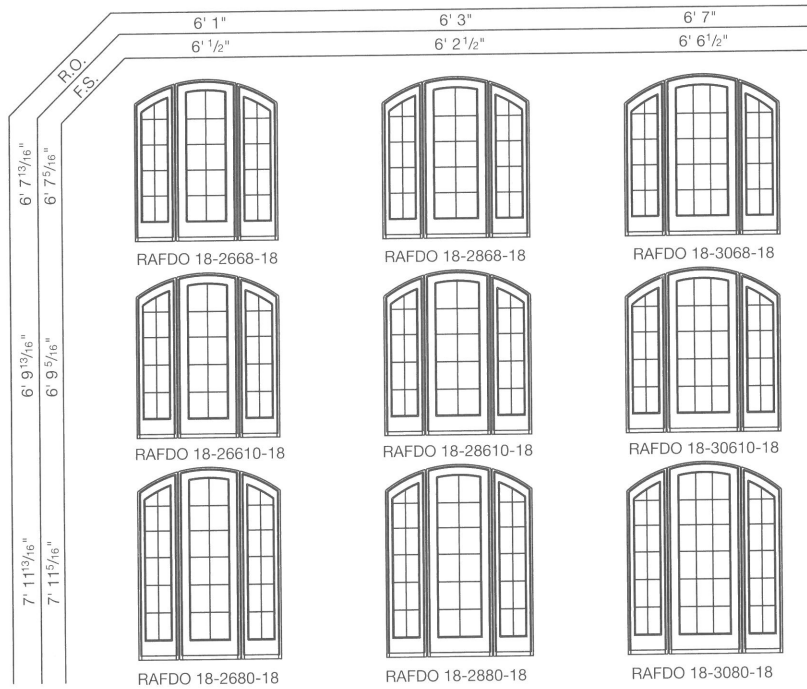
Any unit within each combination can be operating or stationary except for direct-set units and transoms.

Double Arch Outswing Patio Door Sizes



HINGED PATIO DOORS

3-Wide Arch Outswing Patio Door & Sidelight Sizes



NOTES

All doors and sidelights use safety/tempered glass.

3-wide doors have a 5' 0" radius.

CPS doors shown with optional mid-rail.

See handing chart on page 132 for operation options.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

Outswing Frame Height Formula* (using Low Threshold Sill)

= Standard Outswing Frame Height – 7/16"

*Does not apply to Concealed Panic System (CPS) doors

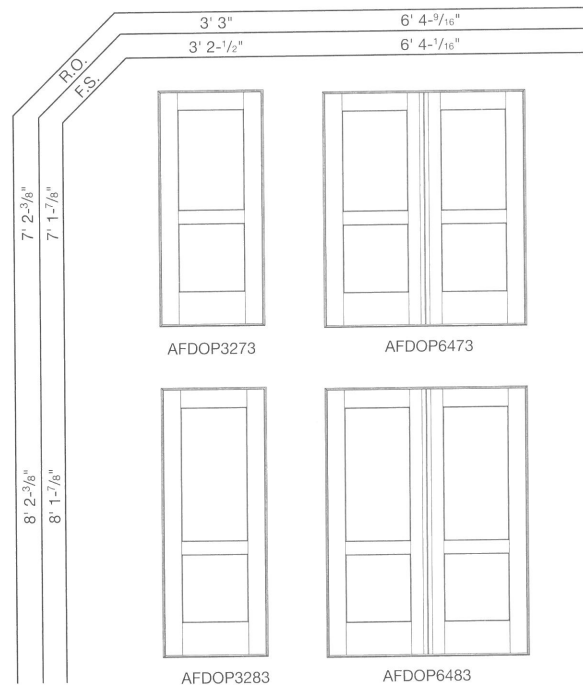
FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Any unit within each combination can be operating or stationary except for arch sidelights.

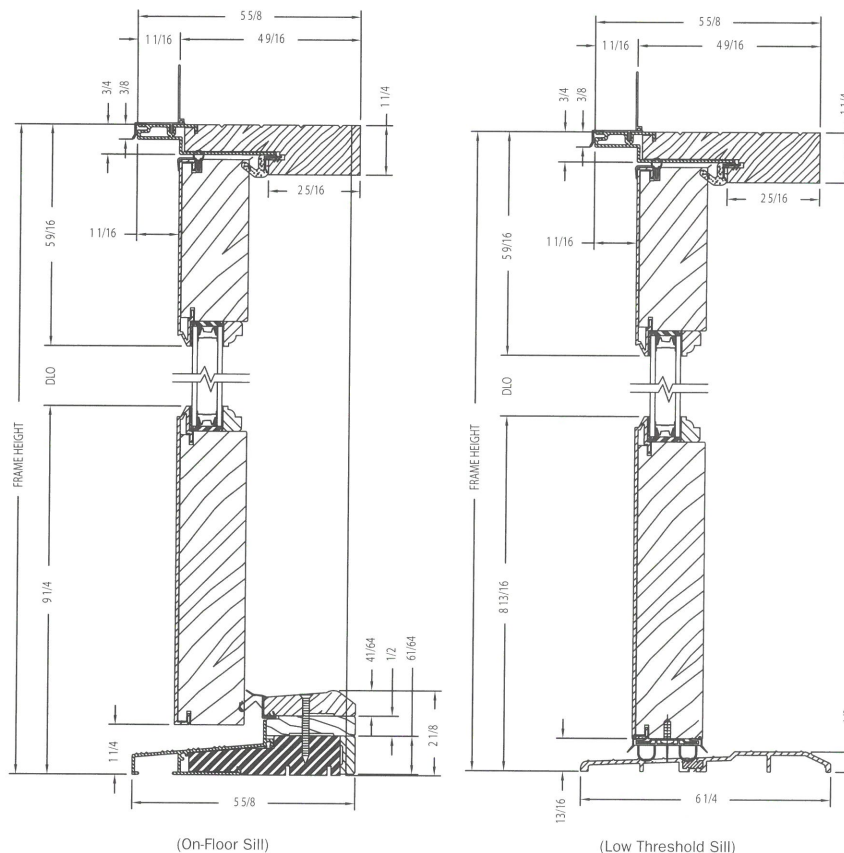
Concealed Panic System (CPS) Door Sizes



CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

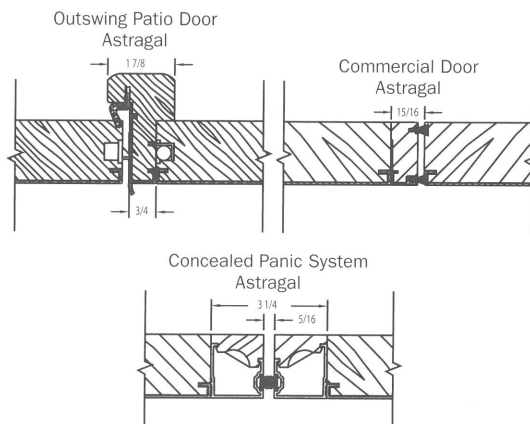
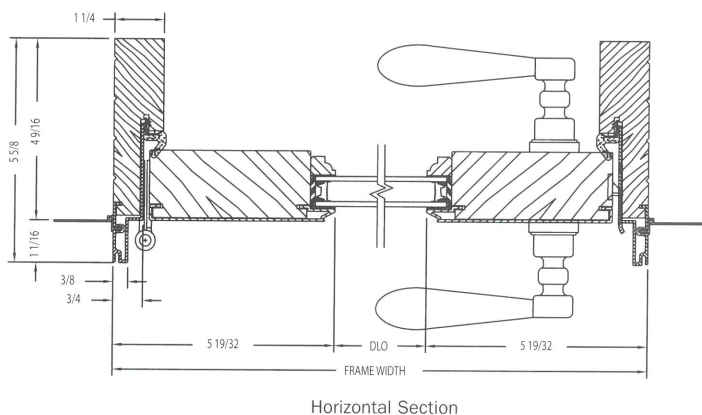
Hinged Outswing Patio Doors

Hinged Outswing Patio Door



Vertical Section

Astragal

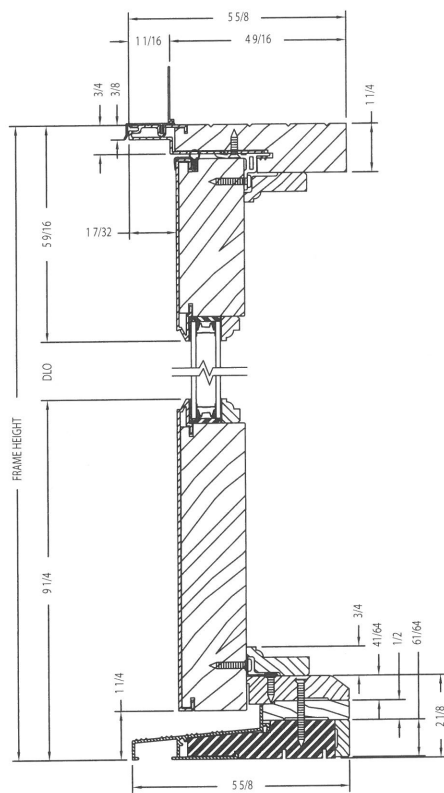


Shown with ovolo (colonial) glass stops.
French panel shown, also available with a contemporary panel.

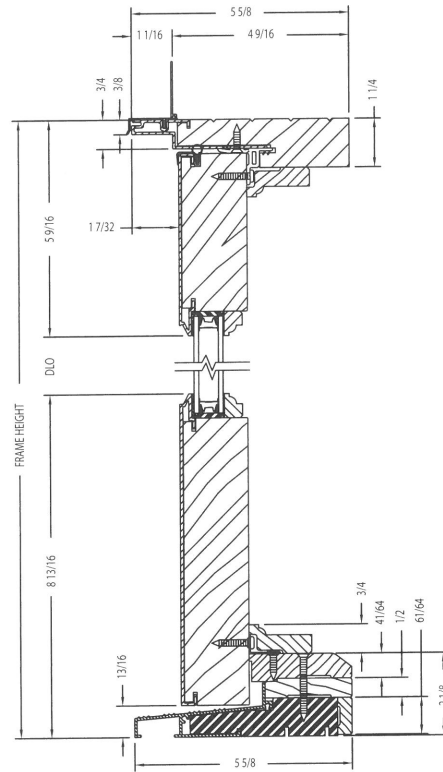
PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Hinged Outswing Patio Doors

Outswing Sash-Set Sidelight

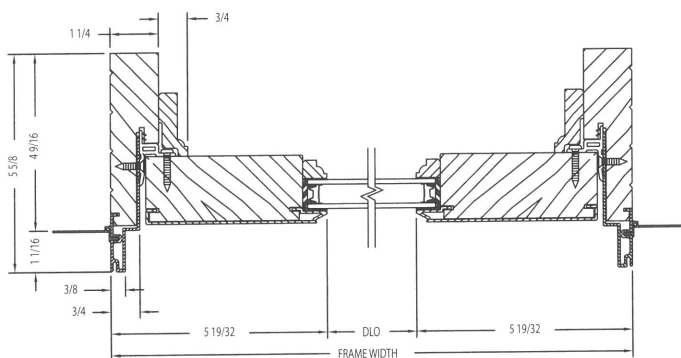


(On-Floor Sill)

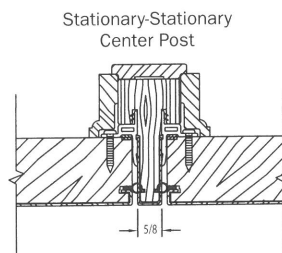


(To Align with Low Threshold Sill)

Vertical Section



Horizontal Section



Stationary-Stationary
Center Post

Shown with ovolo (colonial) glass stops.

PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Outswing Venting Sidelight



Vertical Section



PROPER INSTALLATION AND MAINTENANCE OF E-SERIES PRODUCTS IS ESSENTIAL TO ATTAIN OPTIMUM PERFORMANCE AND OPERATION. WRITTEN INSTALLATION INSTRUCTIONS THAT PROVIDE GUIDELINES FOR PROPER INSTALLATION ARE AVAILABLE BY VISITING ANDERSENWINDOWS.COM. CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

GLIDING PATIO DOORS

Choose from our French panels with 8" or 12" bottom rail options, or one of two narrower panel profiles for a more contemporary look, to create an open view to the outside. E-Series gliding patio doors feature multi-point locking hardware for a firm, secure seal and tandem ball bearing rollers for smooth operation.

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Panel Labeling & Handling	146
Gliding Sizing	
Stationary & Two-Panel Doors	147
Four-Panel Doors	147
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French Gliding Sizing	
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Four-Panel Doors	151
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Installation Materials	154
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Custom sizing is available.





GLIDING PATIO DOORS

FEATURES

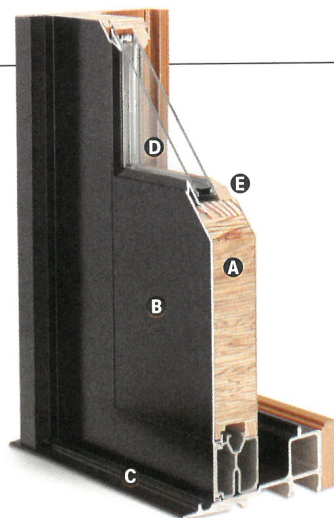
GLIDING PATIO DOORS

FRAME & PANEL

A Select wood components are kiln dried and treated with water/insect repellent and preservative. Interior wood surfaces are available in pine, mixed grain Douglas fir, cherry, hickory, mahogany*, maple, oak, walnut, alder or vertical grain Douglas fir. Interior surfaces are available unfinished or factory primed. Optional factory-applied finishes are available in a variety of stains and paints.

B Wood components are fitted with aluminum extrusions on the exterior. 50 exterior colors that meet AAMA 2604 and 2605 specifications are available, as well as custom colors. Also available is a selection of seven exterior anodized options.

The frame consists of foam-filled leaf weatherstrip on the exterior creating a weather-resistant pocket for the door panel. A dual weatherstrip seal on the interlock is fitted between the fixed and operating meeting stiles.

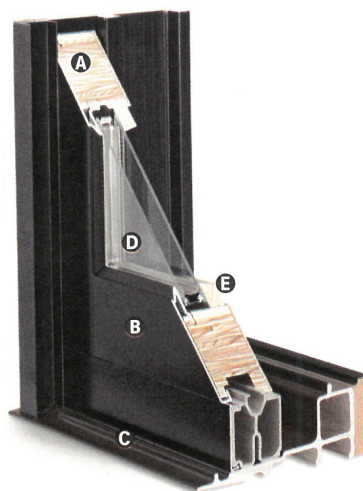


French Gliding Patio Door

Vinyl installation flanges are pre-applied into a kerf on the frame exterior to facilitate installation. Optional aluminum flanges and metal installation clips are available. Standard jamb depth is 4 7/8" for gliding patio doors.

SILL

C A durable fiberglass sill is an excellent thermal barrier. Stainless steel roller caps provide smooth operation of the door panel. Available in dark bronze or gray.



Gliding Patio Door

E Glass is fixed in place from the interior with wood stops that can be removed for easy reglazing if necessary. Glass stops available in ovolo (colonial) and contemporary profiles.

HARDWARE

Steel Rollers

Operating panel consists of two tandem ball bearing steel roller assemblies. Stainless steel roller assemblies are available as an option.



Multi-Point Locking System

The multi-point locking system features a unique reachout design that pulls the door panel tightly closed for a weather-tight seal and enhanced security.



GLASS

D High-Performance Low-E4® glass with a low-conductivity spacer. Triple-pane glass, tinted, clear dual-pane, high-altitude glass and other special glazing options are available.

ACCESSORIES Sold Separately

HARDWARE

Auxiliary Foot Lock

An enhanced foot lock is discreetly positioned on the side of the panel. Foot lock provides an extra measure of security when door is in locked position. Available in finish options to complement handle sets.



Optional Hardware

Additional hardware options such as exterior keyed locks and more are also available.

SENSORS

VeriLock® sensors and open/closed sensors are available for gliding patio doors. See page 27 for Smart Home options.

INSECT SCREENS

Top-Hung Gliding Insect Screens

Charcoal fiberglass screen mesh fits into an aluminum frame available in 50 exterior colors. Aluminum screen mesh is also available.

Retractable Insect Screens

The retractable insect screen has charcoal fiberglass screen mesh. Insect screen retracts when not needed, providing an unobstructed view through the glass. Available in 50 exterior colors.

PRIVACY OPTIONS

Blinds-Between-the-Glass

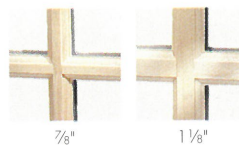


A 5/8" aluminum slat blind mounted between two panes of insulated glass in a dust-free environment. Available in white, tan and almond. Blinds are magnetically controlled and can be tilted or raised and lowered with one cord.** Not available on arch patio doors.

GRILLES

Full Divided Light

Permanent interior and exterior grilles with grille spacer bars between two panes of glass. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profiles. Ovolo profile shown below, not all widths are pictured.



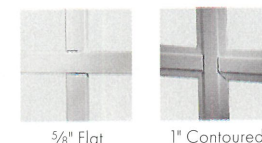
Simulated Divided Light

Permanent exterior and interior grilles without grille spacer bars. Available in 5/8", 7/8", 1 1/8", 1 1/2", or 2 1/4" widths and ovolo or contemporary profiles. Ovolo profile shown below, not all widths are pictured.



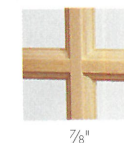
Finelight™ Grilles-Between-the-Glass

Available in 5/8" flat or 1" contoured aluminum profiles. Two-tone colors of pebble tan/colony white, sierra bronze/colony white or forest green/colony white are available on the 1" profile.



Removable Interior Wood Grilles

Removable interior wood grilles are available in a 7/8" width and ovolo or contemporary profiles. Optional surround for removable grille and permanent exterior grilles also available. Ovolo profile shown below.



See page 22 for more information on grilles.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.
**Not all sizes of blinds-between-the-glass are retractable. See your Andersen supplier for details.

EXTERIOR & INTERIOR OPTIONS

EXTERIOR COLORS 50 exterior colors, 7 anodized finishes and custom colors. See exterior colors on page 11.

INTERIOR WOOD SPECIES



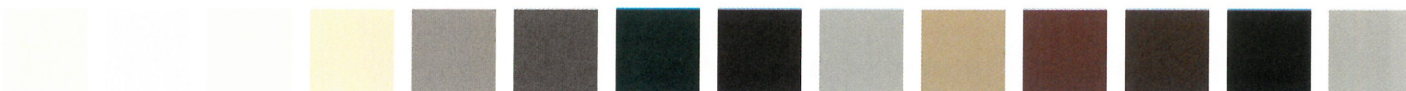
Pine Mixed Grain Douglas Fir Oak Maple Hickory Mahogany* Cherry Walnut Vertical Grain Douglas Fir Alder

FACTORY-FINISHED INTERIORS



Clear Coat Wheat Autumn Oak Golden Hickory Honey Cinnamon Russet Mocha Espresso

INTERIOR PAINTED OPTIONS



White Birch Bark Primed (for paint) Canvas Sandtone Terratone Forest Green Dark Bronze Dove Gray Prairie Grass Red Rock Cocoa Bean Black Anodized Silver

Interior custom stains, paints and color matching available.

Naturally occurring variations in grain, color and texture of wood make each window one of a kind.

All factory-finished options are shown on pine.

Painted options available on pine. Dark bronze and black painted options available on pine or maple. Anodized silver painted option available on maple only.

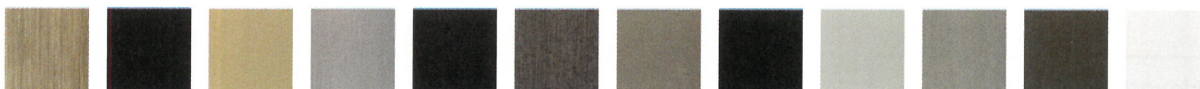
HARDWARE OPTIONS



YUMA®	ENCINO®	NEWBURY®	ANVERS®	COVINGTON™	WHITMORE®	ALBANY	TRIBECA®
Distressed Bronze	Distressed Bronze	Antique Brass	Bright Brass	Antique Brass	Antique Brass	Black	Black
Distressed Nickel	Distressed Nickel	Bright Brass	Oil Rubbed Bronze	Bright Brass	Bright Brass	Gold Dust	Stone
		Brushed Chrome	Satin Nickel	Oil Rubbed Bronze	Oil Rubbed Bronze	Stone	White
		Oil Rubbed Bronze			Satin Nickel	White	
		Polished Chrome					
		Satin Nickel					

Bold name denotes finish shown.

HARDWARE FINISHES



Antique Brass Black Bright Brass Brushed Chrome Distressed Bronze Distressed Nickel Gold Dust Oil Rubbed Bronze Polished Chrome Satin Nickel Stone White

Distressed bronze and oil rubbed bronze is a "living" finish that will change with time and use.

*Actual wood species is either Sapele or Sipo, both non-endangered species grown in Africa, with color and characteristics similar to Central American mahoganies.

Mix and match interior and exterior style and finish options are available.

Bright brass and satin nickel finishes feature a 10-year limited warranty.

Tribeca and Albany hardware are zinc diecast with powder-coated durable finish, other hardware is solid forged brass.

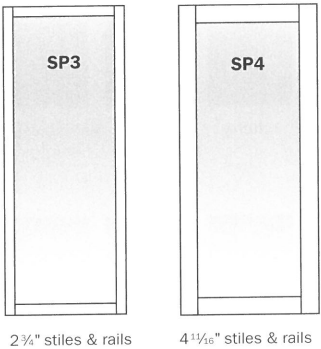
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

Gliding Patio Door Panel Labeling

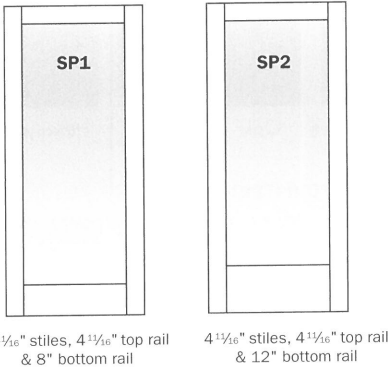
Door Panel Options

Andersen® E-Series offers both contemporary and French panel styles to complement traditional or modern architecture.

Gliding Patio Door Contemporary Panels



Gliding Patio Door French Panels



Gliding Patio Door Handing

The door handing and order designation noted below is consistent with the handing of other Andersen® gliding patio doors and is used throughout the remainder of the gliding patio doors section.

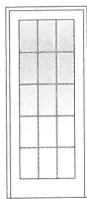
Identification

As viewed from the exterior, either the left or the right panel operates. The arrow designates the direction of panel operation. Stationary (S) doors can be used as an individual unit or as a sidelight.

Gliding Patio Doors & French Gliding Patio Doors

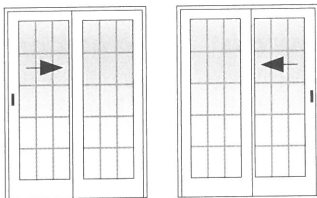
Handing Options

Single Door



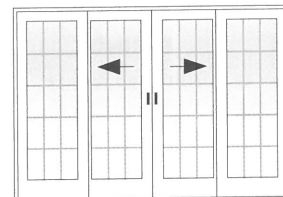
S
Stationary Panel

2-Panel Door



LS **SR**
Left (L) panel is operating, right panel is stationary (S). Left panel is stationary (S), right (R) panel is operating.

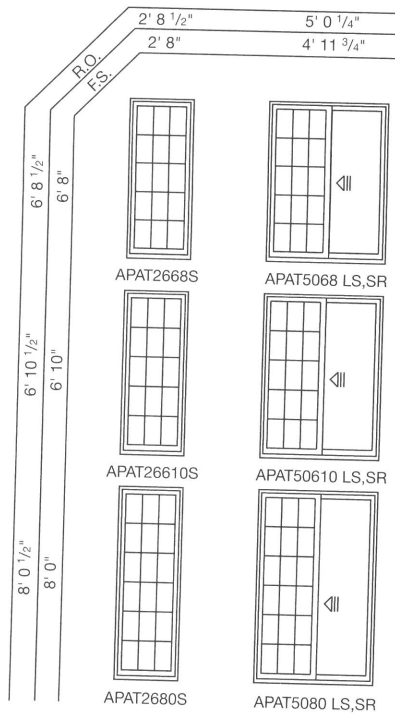
4-Panel Door



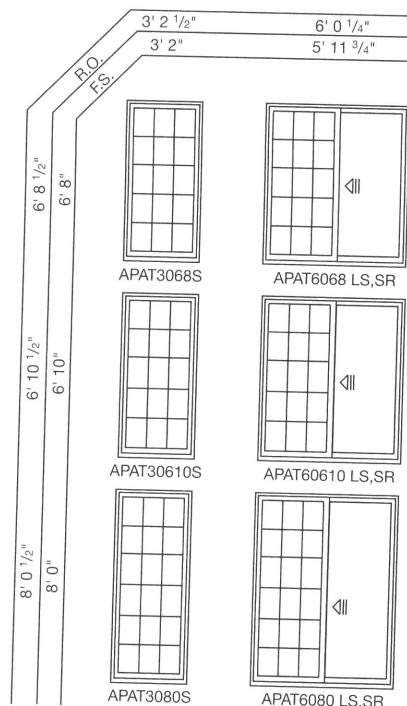
Astragal is attached on third panel from the left (as viewed from the exterior)

Order Designation Description	
	As Viewed From Exterior
Stationary	S
2-Panel Door	SR
	LS
4-Panel Door	—

Gliding Patio Door Sizes



Gliding Patio Door Sizes



NOTES

All doors and sidelights use safety/tempered glass.

Astragal is applied to third panel from the left (as viewed from the exterior) on a 4-panel gliding patio door.

**4-panel doors are shipped knocked down and require field assembly because of size and weight.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

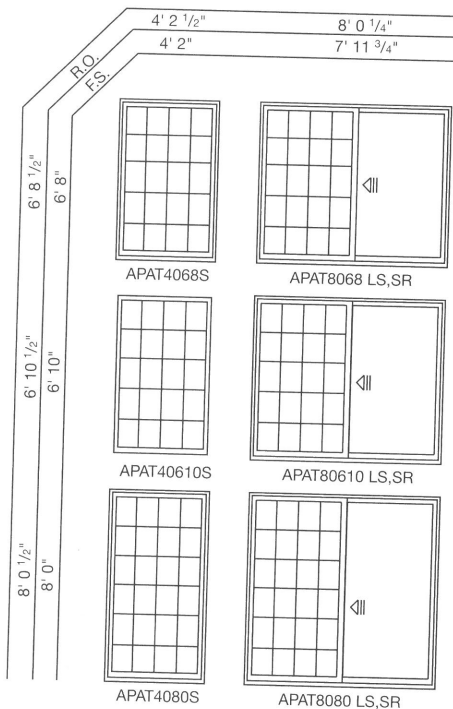
For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

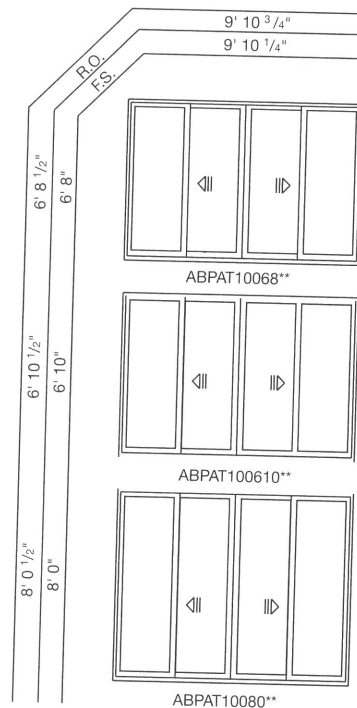
The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

Gliding Patio Door Sizes



4-Panel Gliding Patio Door Sizes

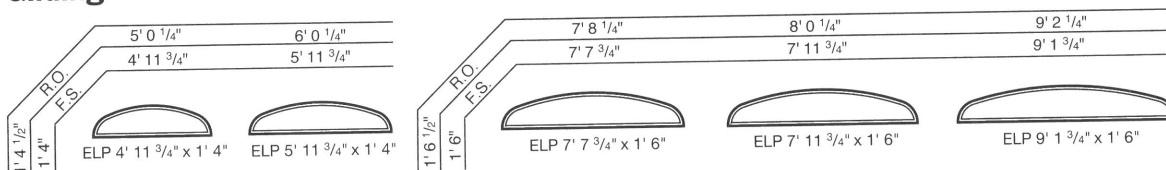


GLIDING PATIO DOORS

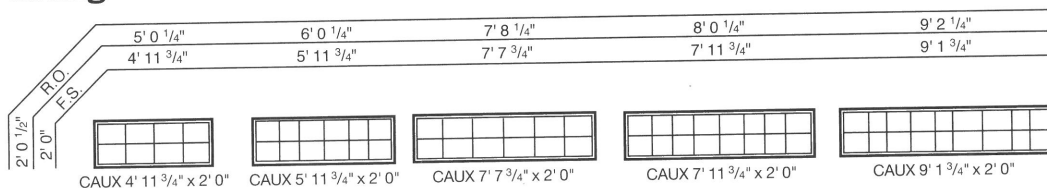
4-Panel Gliding Patio Door Sizes



Gliding Patio Door Direct-Set Elliptical Sizes (Specialty Frame)



Gliding Patio Door Direct-Set Transom Sizes (Specialty Frame)



NOTES

All doors and sidelights use safety/tempered glass.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

Astragal is applied to third panel from the left (as viewed from the exterior) on a 4-panel gliding patio door.

**4-panel doors are shipped knocked down and require field assembly because of size and weight.

See transom notes on page 149.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns for the gliding door. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

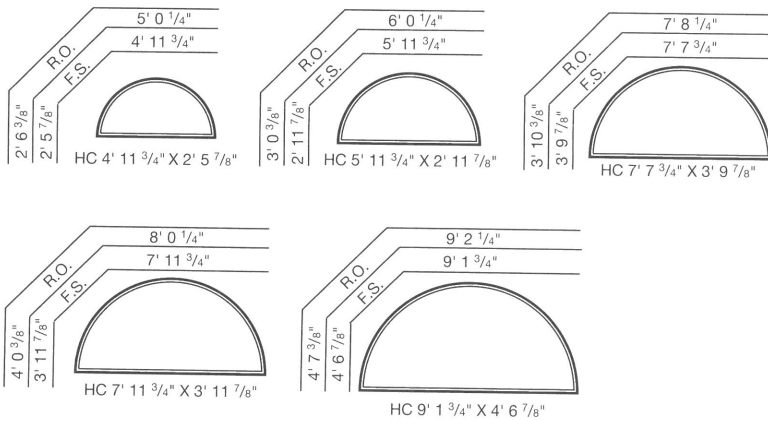
FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
A) THROUGH THE JAMB B) ALUMINUM INSTALLATION FLANGE OR C) INSTALLATION CLIPS.
ADDITIONAL CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

Gliding Patio Door Direct-Set Half Circle Sizes (Specialty Frame)



NOTES

4' 11-3/4" wide units are used above 5068, 50610 or 5080 Gliding Patio Doors.

5' 11-3/4" wide units are used above 6068, 60610 or 6080 Gliding Patio Doors.

7' 7-3/4" wide units are used above 7668, 76610 or 7680 Gliding Patio Doors.

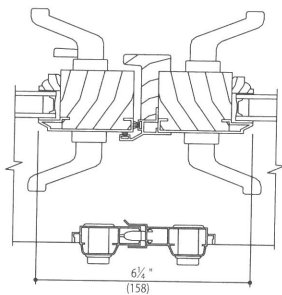
7' 11-3/4" wide units are used above 8068, 80610 or 8080 Gliding Patio Doors.

9' 1-3/4" wide units are used above 9068, 90610 or 9080 Gliding Patio Doors.

See notes on page 148 for more information.

Gliding Patio Doors

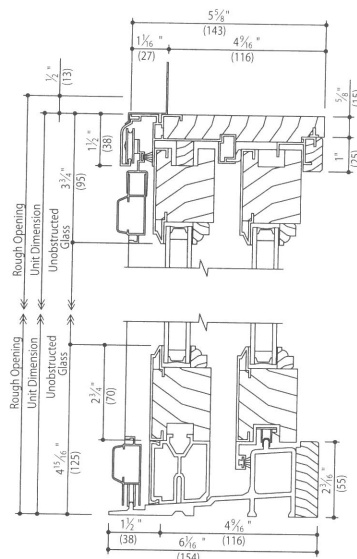
Astragal



Contemporary door panel shown with ovolo (colonial) glass stops.

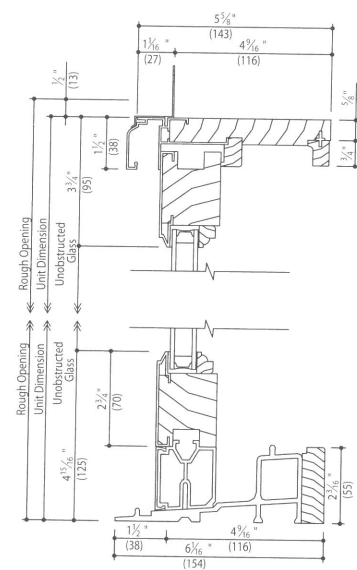
Dimensions in parentheses are in millimeters.

Gliding Patio Door

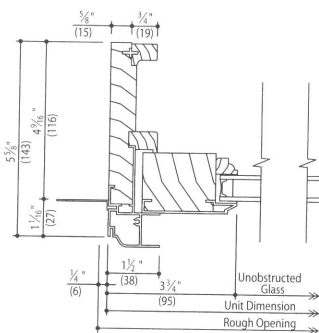


Vertical Section

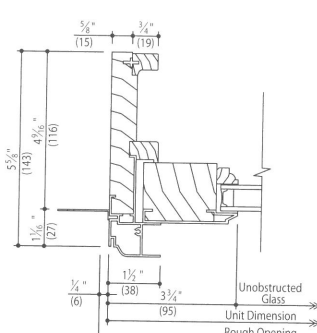
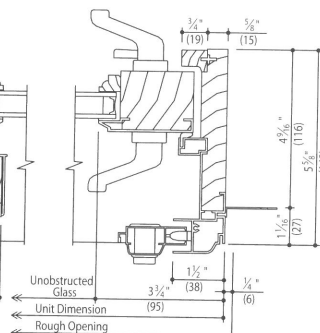
Gliding Patio Door Sidelight



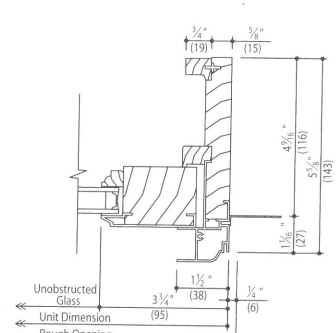
Vertical Section



Horizontal Section



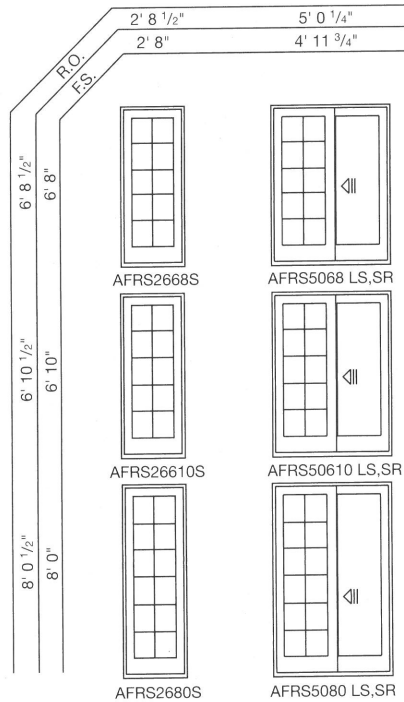
Horizontal Section



FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
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CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

GLIDING PATIO DOORS

French Gliding Patio Door Sizes



NOTES

All doors and sidelights use safety/tempered glass.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified.

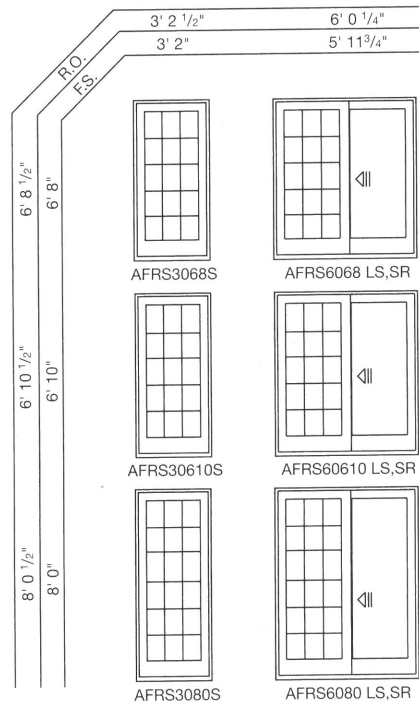
For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

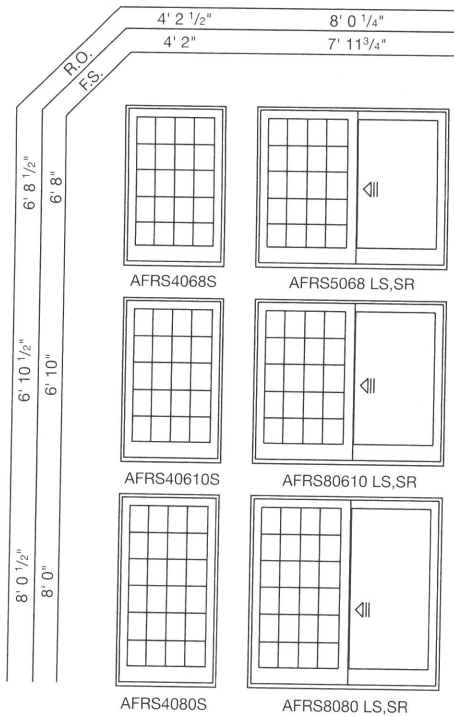
The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

French Gliding Patio Door Sizes

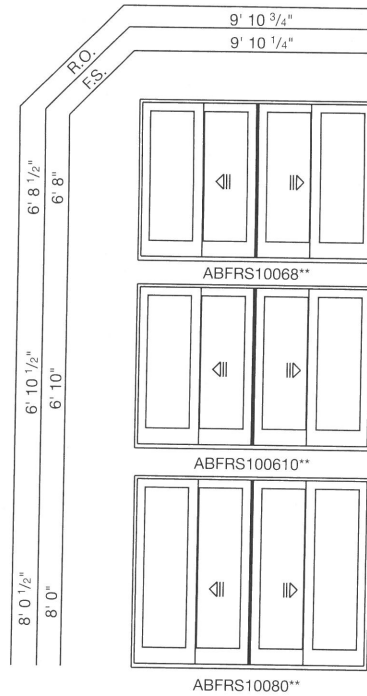


CUSTOM SIZES ARE AVAILABLE. CONTACT YOUR LOCAL SUPPLIER FOR MORE INFORMATION. DRAWINGS ARE NOT TO SCALE.

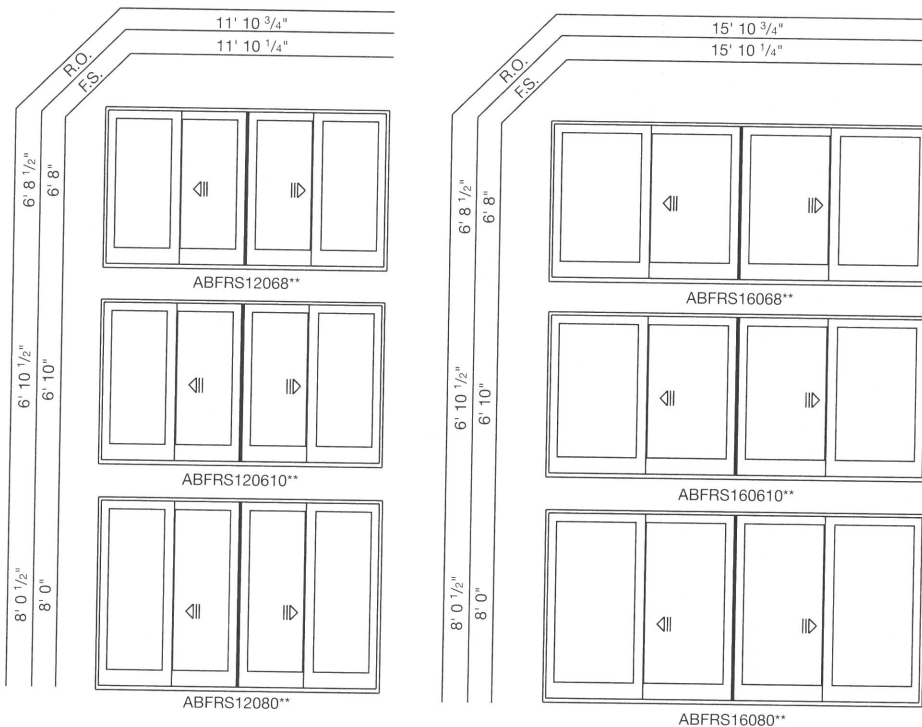
French Gliding Patio Door Sizes



4-Panel French Gliding Patio Door Sizes



4-Panel French Gliding Patio Door Sizes



NOTES

All doors and sidelights use safety/tempered glass.

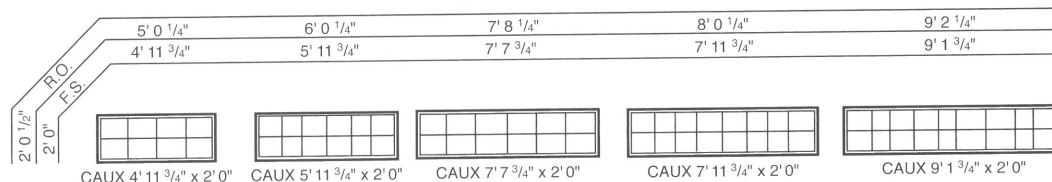
Astragal is applied to third panel from the left (as viewed from the exterior) on a 4-panel French gliding patio door.

** 4-panel doors are shipped knocked down and require field assembly because of size and weight.

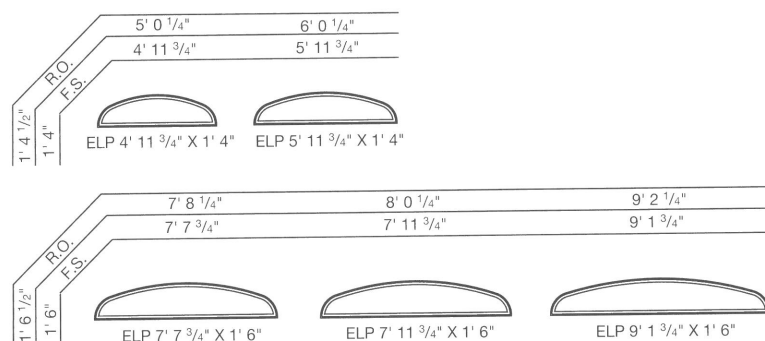
See notes on page 150 for more information.

GLIDING PATIO DOORS

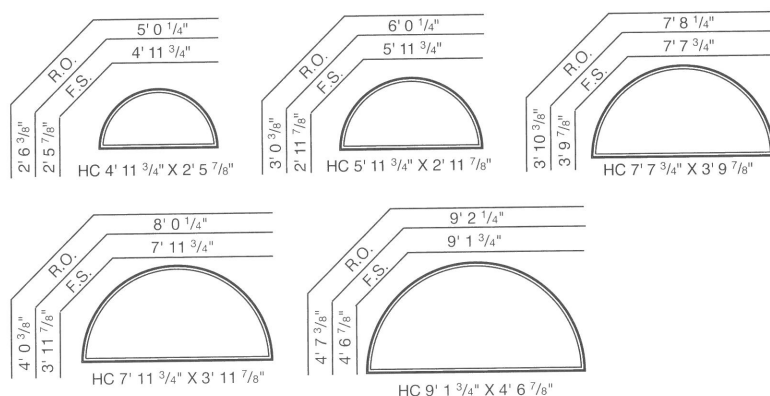
French Gliding Patio Door Direct-Set Transom Sizes (Specialty Frame)



French Gliding Patio Door Direct-Set Elliptical Sizes (Specialty Frame)



French Gliding Patio Door Direct-Set Half Circle Sizes (Specialty Frame)



NOTES

All doors and sidelights use safety/tempered glass.

If glass is positioned within 18" of the finished floor, safety/tempered glass may be required. Local codes may differ. Verify tempered glass requirements with your local building code official.

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5' 11-3/4" wide units are used above 6068, 60610 or 6080 French Gliding Patio Doors.

7' 7-3/4" wide units are used above 7668, 76610 or 7680 French Gliding Patio Doors.

7' 11-3/4" wide units are used above 8068, 80610 or 8080 French Gliding Patio Doors.

9' 1-3/4" wide units are used above 9068, 90610 or 9080 French Gliding Patio Doors.

Use structural joining material when necessary or required by code.

The light patterns illustrated apply to removable interior wood grilles, Full Divided Light, Simulated Divided Light, Decorelle 100, 150 and 400 and Finelight™ Grilles-Between-the-Glass. All removable interior wood grilles will be installed in the units unless otherwise specified. The staggered light patterns illustrated align with light patterns in the gliding door. Other light patterns are available upon request.

For a metric conversion in millimeters, multiply dimensions in inches by 25.4.

FORMULA FOR COMBINATION DOORS

The overall frame dimension (both width and height) is equal to the sum of the individual unit frame dimensions plus joining material dimension(s).

The overall rough opening (both width and height) is equal to the overall frame dimensions plus 1/4" on all sides.

FOR WINDOWS GREATER THAN 30 SQUARE FEET OR RATED HIGHER THAN PG50, ONE OF THESE THREE INSTALLATION METHODS IS REQUIRED:
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French Gliding Patio Door



Vertical Section

French Gliding Patio Door Sidelight



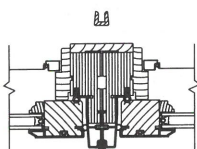
Vertical Section

153

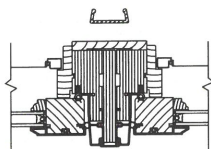
Installation Materials

We offer a variety of accessory metals to ensure a coordinated, low-maintenance window or door system. Available in 50 exterior colors at no additional cost, these trims save time on the job site.

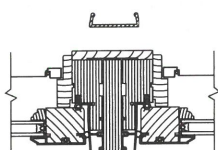
Joining Components



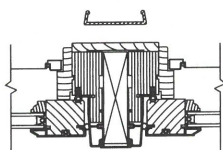
Standard Exterior Mull Cover



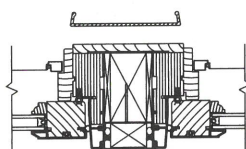
1/2" Exterior Mull Cover



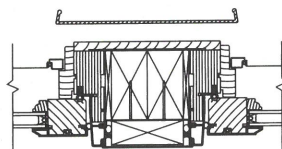
3/4" Exterior Mull Cover



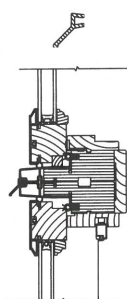
1" Exterior Mull Cover



2" Exterior Mull Cover

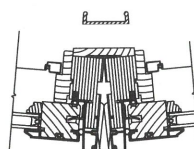


3-1/2" Exterior Mull Cover

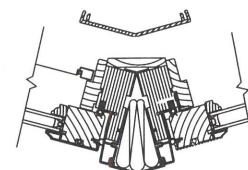


Standard Exterior Mull Cover
with Drip

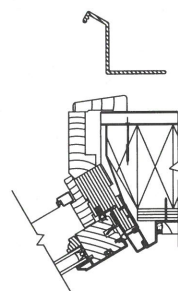
Bay and Bow Trim Metals & Applications



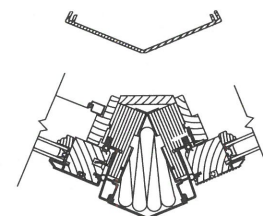
10° Casement Bow
Exterior Mull Cover



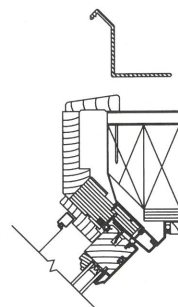
30° Casement Angle Bay
Exterior Mull Cover



30° Angle Bay Enclosure



45° Casement Angle Bay
Exterior Mull Cover



45° Angle Bay Enclosure



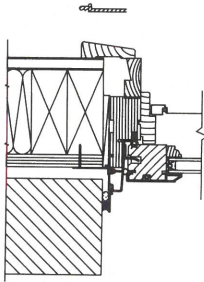
30° Angle Bay Exterior Mull Cover



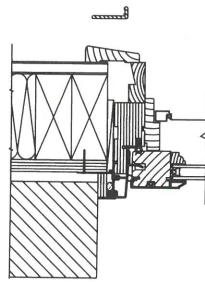
45° Double-Hung
Exterior Mull Cover

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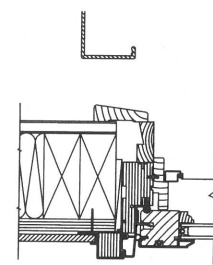
Trim Metals & Applications



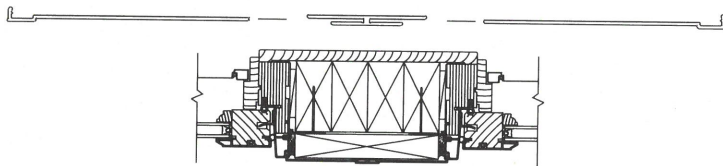
3/4" Frame Extender



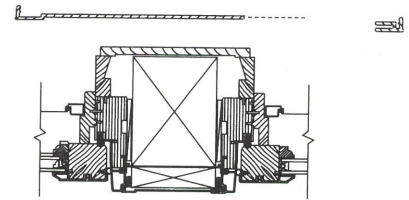
3/4" Frame Expander



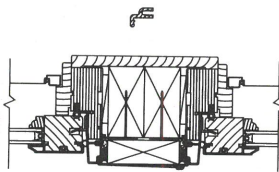
90° Angle Expander



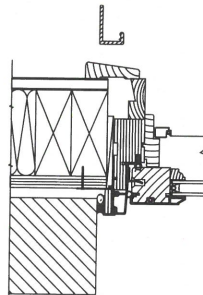
1-1/2" Mull Expander – May be used with adjustable mull covers or frame expanders (vertical joins only)



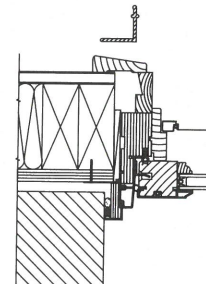
1" - 5" Adjustable Mull Cover and Receiver (vertical join)



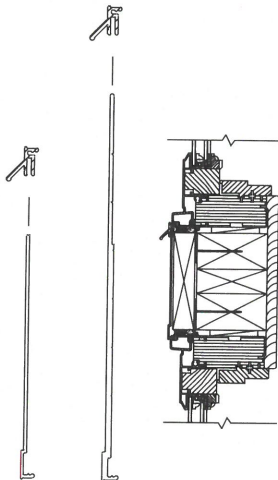
Frame Expander Receiver



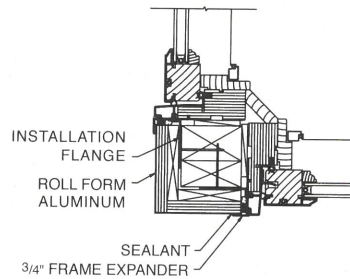
Expander Return



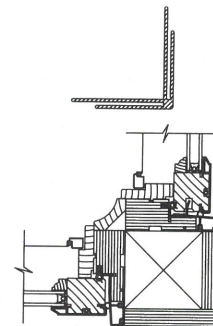
3/4" Frame Enclosure



1" - 5" and 5-1/4" - 8" Adjustable Mull Cover and Receiver with Drip Leg (horizontal join)



Corner Post Section of Box Bay Using Roll Form Metal on Corners



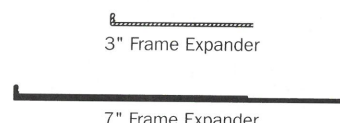
90° Outside Corner



2-1/4" Frame Expander



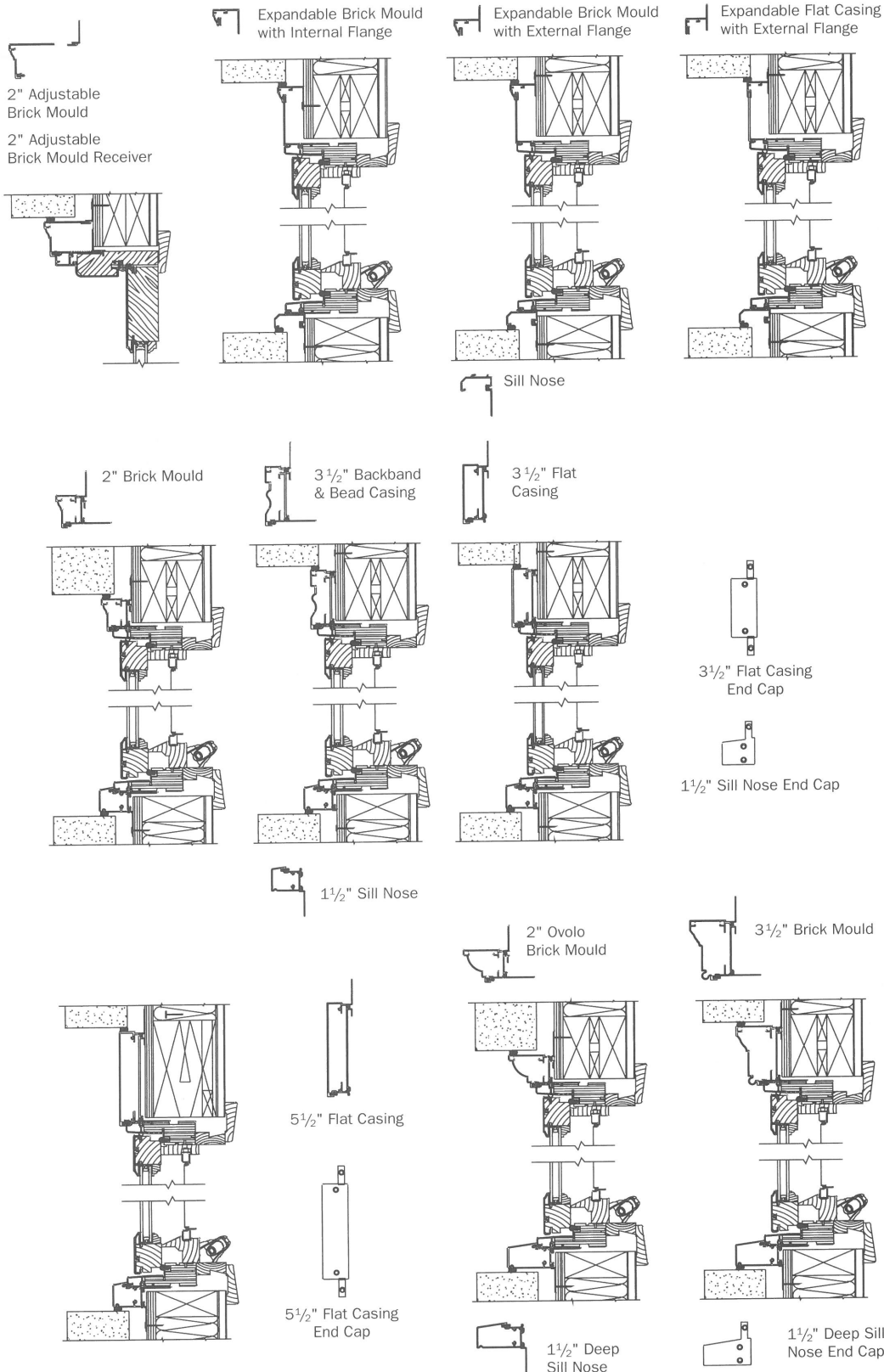
5" Frame Expander



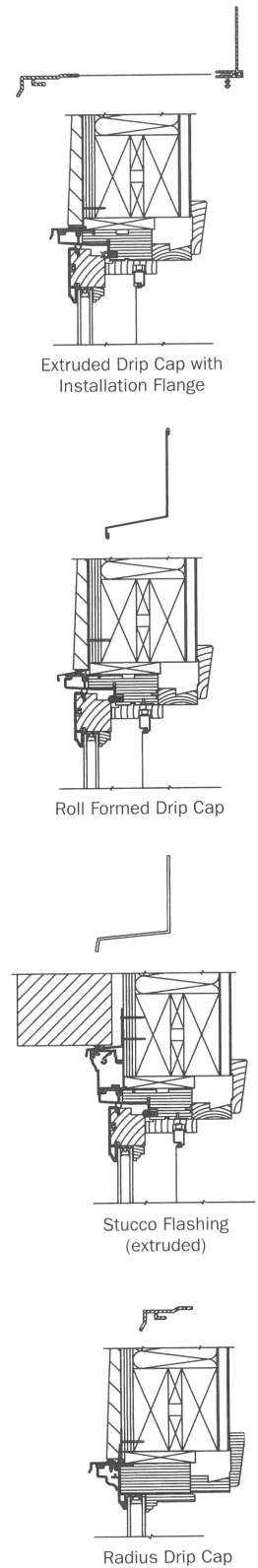
3" Frame Expander

7" Frame Expander

Applications

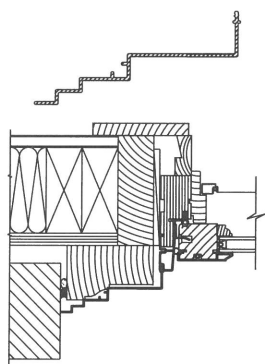
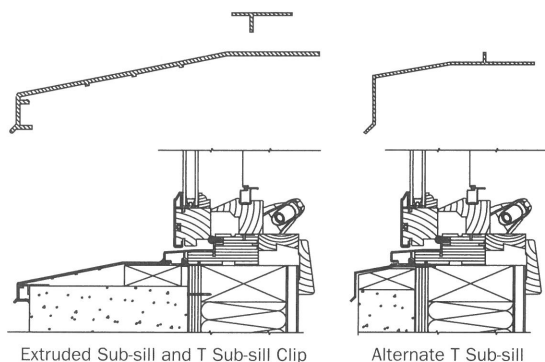


Drip Caps & Applications

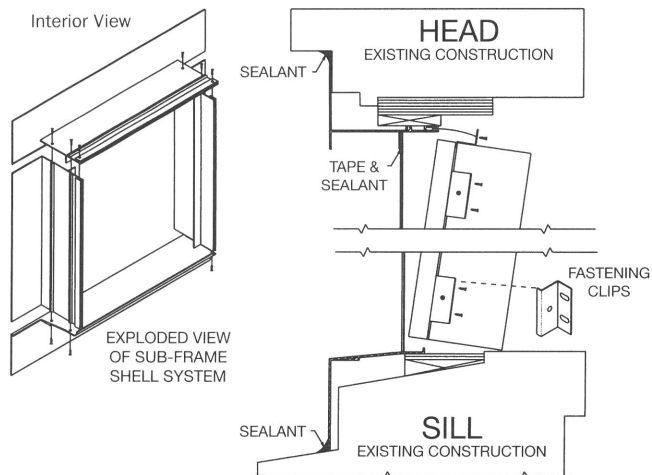


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Miscellaneous Trim Metals & Applications



Sub-Frame Shell System

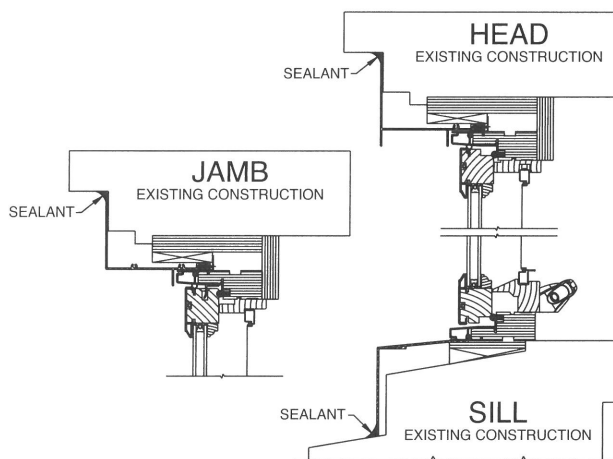


The E-Series Sub-Frame Shell System is a simple and effective way to meet remodeling needs for residential and commercial projects. Preserving existing buildings and neighborhoods has become increasingly important to our society. And a good, sound, older structure can be as efficient as, if not more efficient than, a new building.

Many E-Series products will work in the Sub-Frame Shell System for remodeling, which means you have unlimited design choices to fit the existing architecture. The Sub-Frame Shell System is a heavy aluminum perimeter-flange sub-frame that covers most existing construction conditions. It can be installed from the inside without costly scaffolding or off-staging.

Masonry Opening Formulas

Masonry Opening Formulas			
Formulas allow 1/4" for backer rod and sealant around entire perimeter			
2" Brick Mould 2" Ovolo Brick Mould	WIDTH		Frame + 3 3/4"
	HEIGHT	w/ Sill Nose	Frame + 3 1/4"
		4-Sides	Frame + 3 3/4"
3 1/2" Flat Casing 3 1/2" Brick Mould 3 1/2" Backband & Bead Casing	WIDTH	3-Sides	Frame + 2 1/8"
			Frame + 6 3/4"
	HEIGHT	w/ Sill Nose	Frame + 4 3/4"
		4-Sides	Frame + 6 3/4"
5 1/2" Flat Casing	WIDTH	3-Sides	Frame + 3 5/8"
			Frame + 10 3/4"
	HEIGHT	w/ Sill Nose	Frame + 6 3/4"
		4-Sides	Frame + 10 3/4"
		3-Sides	Frame + 5 5/8"



PRODUCT PERFORMANCE

Performance Grade & Air Infiltration Ratings for E-Series Windows & Patio Doors – Dual-Pane & Triple-Pane Glass

For current performance information, please visit andersenwindows.com.

Andersen® Product	Panel Type	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT²
Casement Windows				
Stationary (6060)	-	Class CW-PG50-FW Size Tested 72" x 72"	50/50	≤0.2
Venting (2660)	-	Class CW-PG55-C Size Tested 30" x 72" *	55/55	≤0.2
Venting (3028)	-	Class CW-PG55-C Size Tested 36" x 32"	55/55	≤0.2
Venting (3056)	-	Class CW-PG60-C Size Tested 36" x 66"	60/60	≤0.2
Venting, piano hinge (3060)	-	Class CW-PG70-C Size Tested 36" x 72"	70/70	≤0.2
Awning Windows				
Venting (4030)	-	Class LC-PG50-AP Size Tested 48" x 36"	50/50	≤0.2
Venting (4050)	-	Class LC-PG50-AP Size Tested 48" x 60"	50/50	≤0.2
Venting (4056)	-	Class LC-PG65-AP Size Tested 48" x 66"	65/65	≤0.2
Casement & Awning Picture/Transom Windows				
Fixed (46100) dual-pane glass only	-	Class CW-PG80-FW Size Tested 54" x 120" *	80/80	≤0.2
Fixed (6080) dual-pane glass only	-	Class CW-PG80-FW Size Tested 72" x 96"	80/80	≤0.2
Arch Casement Windows				
Stationary (6060)	-	Class LC-PG50-FW Size Tested 72" x 72"	50/50	≤0.2
Venting (3028)	-	Class CW-PG55-C Size Tested 36" x 32" *	55/55	≤0.2
Venting (3056)	-	Class CW-PG60-C Size Tested 36" x 66"	60/60	≤0.2
Venting (3060)	-	Class CW-PG70-C Size Tested 36" x 72"	70/70	≤0.2
French Casement Windows				
Venting (5050) dual-pane glass only	-	Class LC-PG30-C Tested 60" x 60"	30/30	≤0.2
Push Out Casement Windows				
Venting (3034)	-	Class LC-PG50-C Size Tested 36" x 40"	50/50	≤0.2
Venting (3060)	-	Class LC-PG50-C Size Tested 36" x 72"	50/50	≤0.2
Push Out Awning Windows				
Venting (3440)	-	Class LC-PG40-AP Size Tested 40" x 48"	40/40	≤0.2
Venting (4040)	-	Class LC-PG40-AP Size Tested 48" x 48"	40/40	≤0.2
Double-Hung Full-Frame Windows				
Venting (3470)	-	Class LC-PG55-H Size Tested 40" x 84"	55/55	≤0.2
Venting (3866)	-	Class LC-PG55-H Size Tested 44" x 78"	55/55	≤0.2
Venting (4060)	-	Class LC-PG55-H Size Tested 48" x 72"	55/55	≤0.2
Venting (4686)	-	Class LC-PG30-H Size Tested 54" x 102"	30/30	≤0.2
Double-Hung Picture Full-Frame Windows				
Fixed (5066)	-	Class CW-PG55-FW Size Tested 60" x 78"	55/55	≤0.2
Double-Hung Transom Full-Frame Windows				
Fixed (4040)	-	Class R-PG55-FW Size Tested 48" x 48"	55/55	≤0.2
Double-Hung Insert Windows				
Venting (3866)	-	Class LC-PG30-H Size Tested 44" x 78"	30/30	≤0.2
Double-Hung Picture Insert Windows				
Fixed (5066)	-	Class CW-PG30-FW Size Tested 60" x 78"	30/30	≤0.2
Monumental Single-Hung Windows				
Venting (40100)	-	Class LC-PG35-H Size Tested 48" x 120"	35/35	≤0.2
Venting (5090)	-	Class LC-PG30-H Size Tested 60" x 108"	30/30	≤0.2

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* Contact your Andersen supplier for more information.

* Test specimen size is smaller than the North American Fenestration Standard (NAFS) gateway size specified for this product type and performance class.

continued on next page

Performance Grade & Air Infiltration Ratings for E-Series Windows & Patio Doors – Dual-Pane & Triple-Pane Glass *(continued)*

For current performance information, please visit andersenwindows.com.

Andersen® Product	Panel Type	AAMA/WDMA/CSA 101/IS.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT ²
Gliding Windows				
Venting, active-stationary (6040)	-	Class CW-PG30-HS Size Tested 72" x 48"	30/30	≤0.2
Venting, active-stationary (6050)	-	Class CW-PG30-HS Size Tested 72" x 60"	30/30	≤0.2
Specialty Windows				
Fixed, rectangle (46120)	-	Class CW-PG55-FW Size Tested 54" x 144" *	55/55	≤0.2
Fixed, rectangle (5080)	-	Class CW-PG75-FW Size Tested 60" x 96"	75/75	≤0.2
Gliding & French Gliding Patio Doors				
Single, stationary (4080)	Contemporary panel with 2 3/4" stiles & rails 1	Class LC-PG50-SLT Size Tested 50" x 96"	50/50	≤0.2
Two-panel (6080)	Contemporary panels with 4 11/16" stiles & rails 2	Class LC-PG50-SD Size Tested 71" x 96"	50/50	≤0.2
Two-panel (8080)	Contemporary panels with 4 11/16" stiles & rails 2	Class LC-PG40-SD Size Tested 95" x 96"	40/40	≤0.2
Two-panel (8080)	Contemporary panels with 2 3/4" stiles & rails	Class LC-PG30-SD Size Tested 95" x 96"	30/30	≤0.2
Four-panel (12080)	Contemporary panels with 4 11/16" stiles & rails 2	Class LC-PG40-SD Size Tested 142" x 96"	40/40	≤0.2
Four-panel (16080)	Contemporary panels with 2 3/4" stiles & rails 3	Class LC-PG25-SD Size Tested 190" x 96"	25/25	≤0.2
Hinged Inswing Patio Doors & Sidelights				
Single, stationary or sidelight (34100)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail 4	Class LC-PG45-FD Size Tested 40" x 119.5"	45/60	≤0.2
Single, stationary (34100)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG45-FD Size Tested 40.5" x 120"	45/50	≤0.2
Single, active (3486)	Contemporary panel with 4 11/16" stiles & rails 6	Class LC-PG45-SHD Size Tested 40" x 102"	45/65	≤0.2
Single, active (3486)	Contemporary panel with 3 11/16" stiles & rails	Class LC-PG45-SHD Size Tested 40.5" x 102"	45/50	≤0.2
Single, active, low threshold sill ** (3486)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG50-LW SHD Size Tested 40.5" x 101.18"	50/50	≤0.2
Single, active, low threshold sill ** (3486)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG50-LW SHD Size Tested 40" x 101"	50/60	≤0.2
Single, active (34100)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 8	Class LC-PG45-SHD Size Tested 40" x 119.5"	45/65	≤0.2
Single, active (34100)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG45-SHD Size Tested 40.5" x 120"	45/50	≤0.2
Two-panel, stationary-stationary (6780)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG40-FD Size Tested 79" x 96"	40/40	≤0.2
Two-panel, stationary-stationary (6780)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG40-FD Size Tested 79" x 95.3"	40/40	≤0.2
Two-panel, active-stationary, jamb hinged (6780)	Contemporary panels with 4 11/16" stiles & rails 6	Class LC-PG45-SHD Size Tested 79" x 96"	45/45	≤0.2
Two-panel, active-stationary, jamb hinged (6780)	Contemporary panels with 3 11/16" stiles & rails	Class LC-PG45-SHD Size Tested 79" x 96"	45/45	≤0.2
Two-panel, active-stationary, astragal hinged (6780)	Contemporary panels with 4 11/16" stiles & rails 6	Class LC-PG45-SHD Size Tested 79" x 96"	45/45	≤0.2
Two-panel, active-stationary, astragal hinged (6780)	Contemporary panels with 3 11/16" stiles & rails	Class LC-PG45-SHD Size Tested 79" x 96"	45/45	≤0.2
Two-panel, active-passive (6780)	Contemporary panels with 4 11/16" stiles & rails 6	Class LC-PG40-SHD Size Tested 79" x 96"	40/40	≤0.2
Two-panel, active-passive, low threshold sill ** (6786)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG30-LW SHD Size Tested 79" x 101"	30/30	≤0.2
Two-panel, active-passive (6786)	Contemporary panels with 4 11/16" stiles & rails 9	Class LC-PG30-SHD Size Tested 79" x 102"	30/30	≤0.2
Two-panel, active-passive (6786)	Contemporary panels with 3 11/16" stiles & rails	Class LC-PG30-SHD Size Tested 79" x 101.8"	30/40	≤0.2
Two-panel, active-passive, low threshold sill ** (6786)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG30-LW SHD Size Tested 79" x 101"	30/30	≤0.2
Two-panel, active-passive (67100)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 8	Class LC-PG35-SHD Size Tested 79" x 120"	35/35	≤0.2
Two-panel, active-passive (67100)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG30-SHD Size Tested 79" x 120"	30/40	≤0.2

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* Contact your Andersen supplier for more information.

* Test specimen size is smaller than the North American Fenestration Standard (NAFS) gateway size specified for this product type and performance class.

* Hinged doors with a low threshold sill have limited water performance.

Numbered footnotes provide additional panel types for the same patio door, sidelight or transom listed above that are covered by the given test data.
Commercial patio door panels, referenced as an additional panel type in the numbered footnotes below, do not include commercial doors with Concealed Panic System (CPS).
1 Applies to similar contemporary door panel with 4 11/16" stiles & rails. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail.

2 Also applies to French door panels with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail.

3 Applies to similar contemporary door panels with 4 11/16" stiles & rails in doors with a unit dimension greater than 12" wide. Also applies to French door panels with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail in doors with a unit dimension greater than 12" wide.

4 Applies to similar French sidelight panel with 12" bottom rail; includes comparable commercial panel and similar non-commercial panel with intermediate rail and raised panel insert. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail; includes comparable commercial panel and similar non-commercial panel with intermediate rail and raised panel insert.

5 Also applies to contemporary door panel(s) with 4 11/16" stiles & rails.

6 Also applies to French door panel(s) with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail with or without intermediate rail and with or without raised panel insert; includes comparable commercial panel(s).

7 Applies to similar French door panel(s) with 12" bottom rail with or without intermediate rail and with or without raised panel insert; includes comparable commercial panel(s).

8 Applies to similar French door panel(s) with 12" bottom rail; includes comparable commercial panel(s).

9 Also applies to French door panels with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail; includes comparable commercial panels.

PRODUCT PERFORMANCE

Performance Grade & Air Infiltration Ratings for E-Series Windows & Patio Doors – Dual-Pane & Triple-Pane Glass *(continued)*

For current performance information, please visit andersenwindows.com.

Andersen® Product	Panel Type	AAMA/WDMA/CSA 101/I.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT ²
Hinged Inswing Patio Door Venting Sidelights				
Sidelight, venting (2080)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail 10	Class CW-PG45-SLT Size Tested 24" x 96"	45/50	≤0.2
Hinged Inswing Patio Door Transoms				
Fixed (6720)	Panel with 2 3/4" stiles & rails 11	Class CW-PG60-TR Size Tested 79" x 24"	60/60	≤0.2
Arch Hinged Inswing Patio Doors & Sidelights				
Single, stationary or sidelight (3480)	French arch panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 12	Class CW-PG45-FD Size Tested 40" x 96"	45/60	≤0.2
Single, active (3480)	French arch panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 13	Class CW-PG45-SHD Size Tested 40" x 96"	45/55	≤0.2
Two-panel, active-passive (6080)	French unequal leg arch panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 13	Class LC-PG40-SHD Size Tested 72" x 96"	40/40	≤0.2
Hinged Outswing Patio Doors & Sidelights				
Single, stationary or sidelight (2080)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail, with intermediate rail at 35" location 10	Class CW-PG80-SLT Size Tested 24.5" x 95.3"	80/80	≤0.2
Single, stationary or sidelight (21080)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail, with intermediate rail at 35" location & raised panel insert 14	Class CW-PG75-SLT Size Tested 34.6" x 95.3"	75/75	≤0.2
Single, stationary or sidelight (34100)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail 15	Class LC-PG75-SLT Size Tested 40" x 119.3"	75/80	≤0.2
Single, stationary (34100)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG50-SLT Size Tested 40.5" x 120"	50/50	≤0.2
Single, active (3080)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail, with intermediate rail at 35" location & raised panel insert	Class LC-PG60-SHD Size Tested 36.5" x 95.3"	60/60	≤0.2
Single, active (3080)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail, with intermediate rail at 23 1/4" location & raised panel insert	Class LC-PG60-SHD Size Tested 36.5" x 95.3"	60/60	≤0.2
Single, active (3480)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 8	Class LC-PG60 SHD Size Tested 40" x 95"	60/60	≤0.2
Single, active (3480)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail, with intermediate rail at 35" location 16	Class LC-PG60-SHD Size Tested 40" x 95.3"	60/60	≤0.2
Single, active, low threshold sill** (3480)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG60-LW SHD Size Tested 40" x 94"	60/60	≤0.2
Single, active, low threshold sill** (3480)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG50-LW SHD Size Tested 40.5" x 94.8"	50/50	≤0.2
Single, active (3486)	Contemporary panel with 4 11/16" stiles & rails	Class LC-PG50-SHD Size Tested 40" x 101"	50/50	≤0.2
Single, active (3486)	Contemporary panel with 3 11/16" stiles & rails	Class LC-PG45-SHD Size Tested 40.5" x 101.5"	50/50	≤0.2
Single, active (34100)	French panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 8	Class LC-PG50-SHD Size Tested 40" x 119.3"	50/50	≤0.2
Single, active (34100)	Contemporary panel with 3 11/16" stiles & rails 5	Class LC-PG45-SHD Size Tested 40.5" x 119.3"	50/50	≤0.2
Two-panel, stationary-stationary (6780)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG60-FD Size Tested 79" x 95.3"	60/60	≤0.2
Two-panel, stationary-stationary (6780)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG50-FD Size Tested 79" x 96"	50/50	≤0.2

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* Contact your Andersen supplier for more information.

** Hinged doors with a low threshold sill have limited water performance.

Numbered footnotes provide additional panel types for the same patio door, sidelight or transom listed above that are covered by the given test data.

Commercial patio door panels, referenced as an additional panel type in the numbered footnotes below, do not include commercial doors with Concealed Panic System (CPS).

5 Also applies to contemporary door panel(s) with 4 11/16" stiles & rails.

7 Applies to similar French door panel(s) with 12" bottom rail with or without intermediate rail and with or without raised panel insert; includes comparable commercial panel(s).

8 Applies to similar French door panel(s) with 12" bottom rail; includes comparable commercial panel(s).

10 Also applies to all available panels.

11 Also applies to transom panel with 4 11/16" stiles and 2 1/4" rails and transom panel with 4 11/16" stiles and rails; includes all commercial transom panels.

12 Applies to similar French door panel with 12" bottom rail; includes arch and unequal leg arch door panel with or without intermediate rail and with or without raised panel insert. Also applies to French sidelight panel with 8" or 12" bottom rail with or without intermediate rail and with or without raised panel insert.

13 Also applies to all arch and unequal leg arch door panels with 4 11/16" stiles.

14 Applies to similar French sidelight panel with intermediate rail at 23 1/4" location and raised panel insert. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail with intermediate rail with raised panel insert.

15 Applies to similar French sidelight panel with 12" bottom rail; includes comparable commercial sidelight panel. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail; includes comparable commercial door panel.

16 Applies to similar French door panel with intermediate rail at 23 1/4" location. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 12" bottom rail and intermediate rail; includes comparable commercial door panel.

Performance Grade & Air Infiltration Ratings for E-Series Windows & Patio Doors – Dual-Pane & Triple-Pane Glass (continued)
 For current performance information, please visit andersenwindows.com.

Andersen® Product	Panel Type	AAMA/WDMA/CSA 101/1.S.2/A440 Performance Grade (PG)	+/- Corresponding Design Pressure (DP)	Air Infiltration CFM/FT ²
Hinged Outswing Patio Doors & Sidelights				
Two-panel, active-passive (6780)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 7	Class LC-PG60-SHD Size Tested 79" x 95"	60/60	≤ 0.2
Two-panel, active-passive, low threshold sill** (6780)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 17	Class LC-PG50-LW SHD Size Tested 79" x 94"	50/50	≤ 0.2
Two-panel, active-passive, low threshold sill** (6780)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG40-LW SHD Size Tested 79" x 95"	40/40	≤ 0.2
Two-panel, active-passive (6786)	Contemporary panels with 4 11/16" stiles & rails	Class LC-PG40-SHD Size Tested 79" x 101"	40/40	≤ 0.2
Two-panel, active-passive (6786)	Contemporary panels with 3 11/16" stiles & rails	Class LC-PG45-SHD Size Tested 79" x 101.5"	45/45	≤ 0.2
Two-panel, active-passive (67100)	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 8	Class LC-PG40-SHD Size Tested 79" x 119"	40/40	≤ 0.2
Two-panel, active-passive (67100)	Contemporary panels with 3 11/16" stiles & rails 5	Class LC-PG30-SHD Size Tested 79" x 120"	30/40	≤ 0.2
Hinged Outswing Patio Door Venting Sidelights				
Sidelight, venting (2080)	French panel with 2 3/4" stiles, 4 11/16" top rail & 8" bottom rail with intermediate rail at 35" location 10	Class CW-PG50 Size Tested 24" x 96"	50/50	≤ 0.2
Hinged Outswing Patio Door Transoms				
Fixed (6720)	Panel with 2 3/4" stiles, top rail & bottom rail 10	Class CW-PG80-TR Size Tested 79" x 24"	80/80	≤ 0.2
Arch Hinged Outswing Patio Doors & Sidelights				
Single, stationary or sidelight (3480)	French arch panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 12	Class CW-PG80-FD Size Tested 40" x 96"	80/80	≤ 0.2
Single, active (3480)	French arch panel with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 13	Class LC-PG60-SHD Size Tested 40" x 96"	60/60	≤ 0.2
Two-panel (6080)	French unequal leg arch panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail 13	Class LC-PG60-SHD Size Tested 79" x 96"	60/60	≤ 0.2

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- *Where designated, Andersen products are certified and labeled to the requirements of the Hallmark Certification Program. Actual performance may vary based on variations in manufacturing, shipping, installation, environmental conditions and conditions of use.
- *Contact your Andersen supplier for more information.
- **Hinged doors with a low threshold sill have limited water performance.

Numbered footnotes provide a list of additional panel types for the same patio door, sidelight or transom listed above that are covered by the given test data. Commercial patio door panels, referenced as an additional panel type in the numbered footnotes below, do not include commercial doors with Concealed Panic System (CPS).

- 5** Also applies to contemporary door panel(s) with 4 11/16" stiles & rails.
- 7** Applies to similar French door panel(s) with 12" bottom rail with or without intermediate rail and with or without raised panel insert; includes comparable commercial panel(s).
- 8** Applies to similar French door panel(s) with 12" bottom rail; includes comparable commercial panel(s).
- 10** Also applies to all available panels.
- 12** Applies to similar French door panel with 12" bottom rail; includes arch and unequal leg arch door panel with or without intermediate rail and with or without raised panel insert. Also applies to French sidelight panel with 8" or 12" bottom rails with or without intermediate rail and with or without raised panel insert.
- 13** Also applies to all arch and unequal leg arch door panels with 4 11/16" stiles.
- 17** Applies to similar French door panel with 12" bottom rail; includes comparable commercial panel. Also applies to French door panel with 4 11/16" stiles, 4 11/16" top rail and 8" or 12" bottom rail with intermediate rail and raised panel insert.

For performance ratings for E-Series products with Stormwatch® Protection, go to andersenwindows.com.

PRODUCT PERFORMANCE

Sound Transmission Ratings for E-Series Windows & Patio Doors

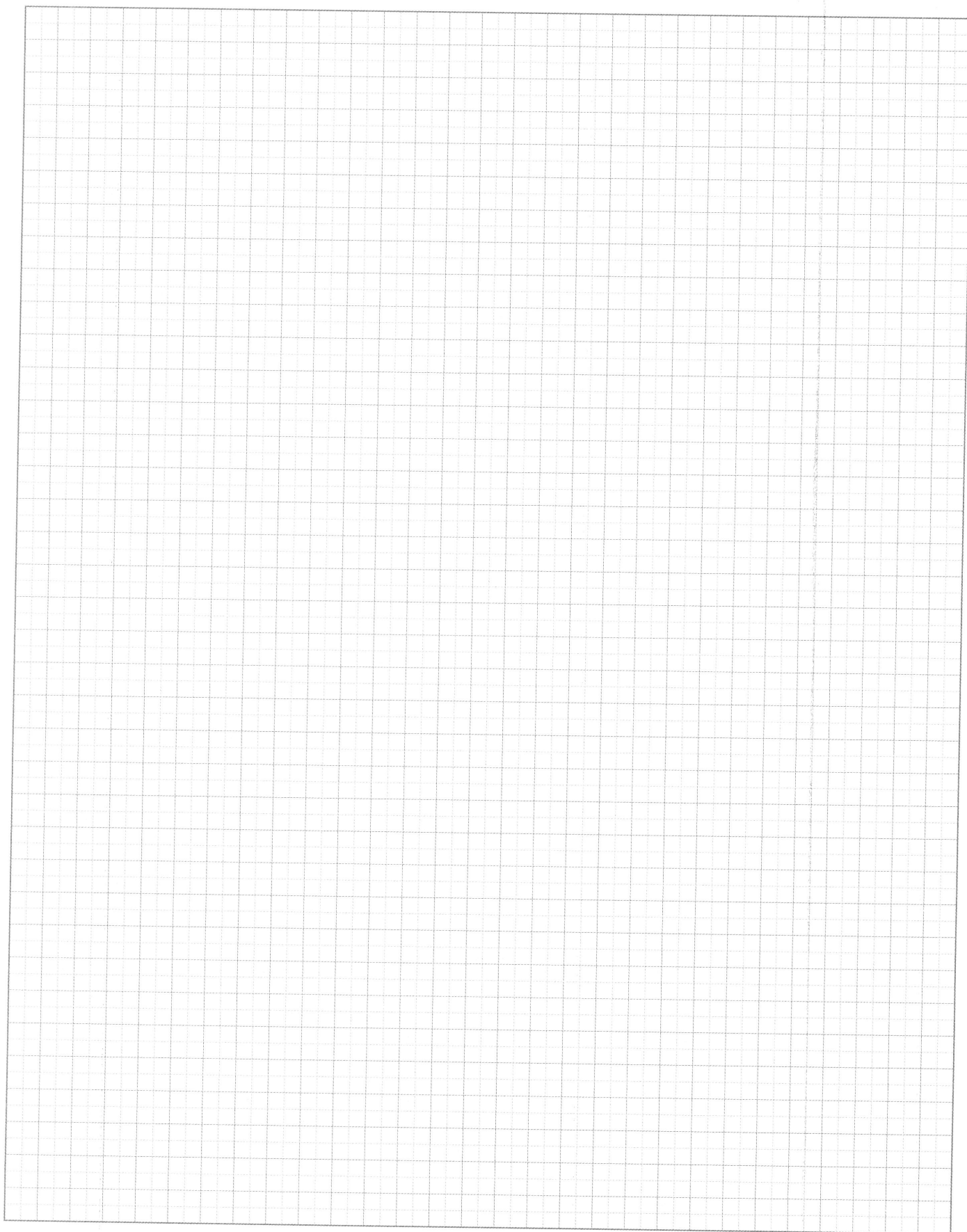
For current performance information, please visit andersenwindows.com.

For current performance information, please visit andersenwindows.com.

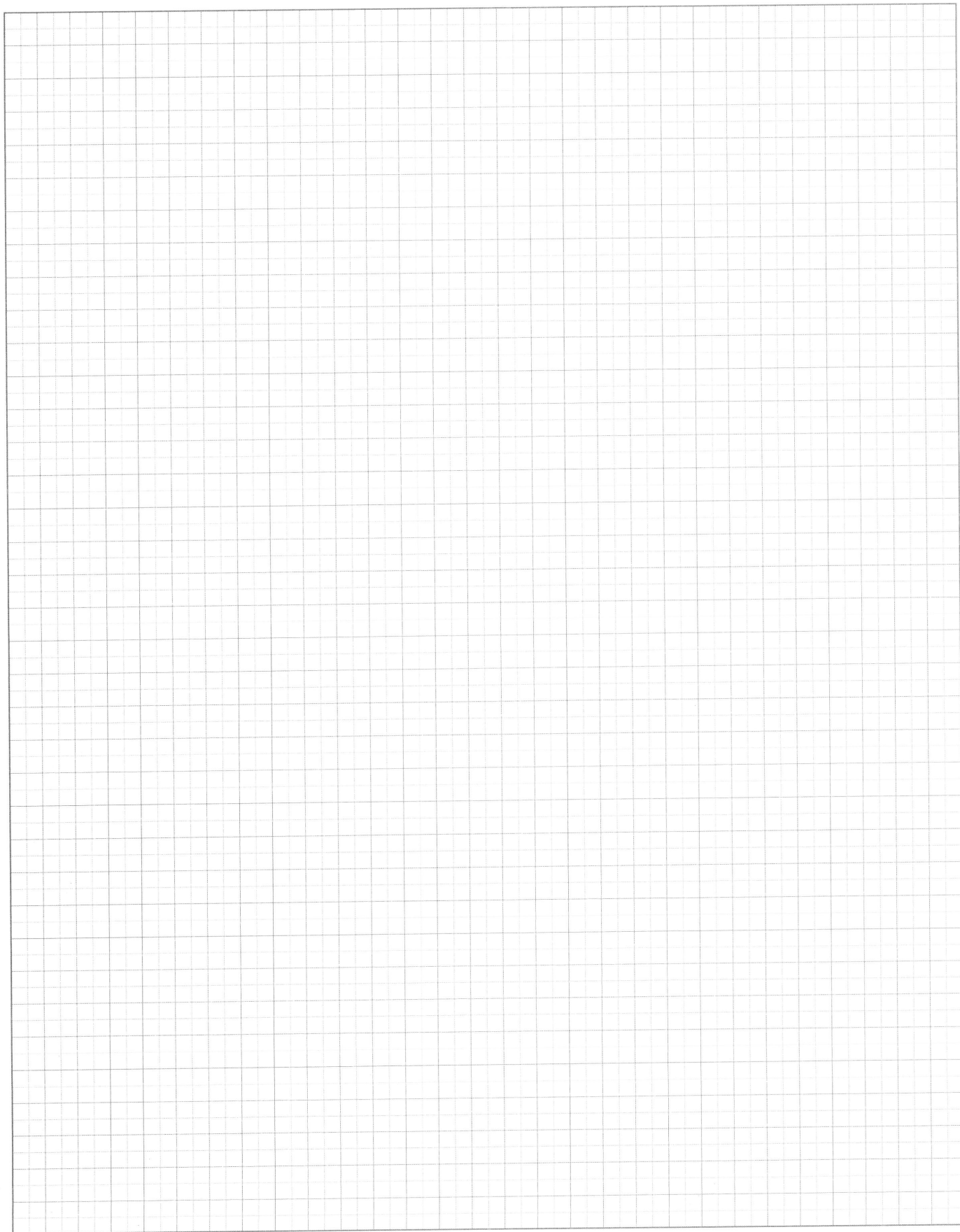
Andersen® Product & Glass Type	Panel Type	Test Size	Sound Transmission Class (STC)	Outdoor/Indoor Transmission Class (OITC)
Casement Windows - Stationary				
Dual-Pane	-	48" x 60"	29	25
Dual-Panel Laminated, 0.030"			33	29
STC Upgrade			32	29
Casement Windows - Venting				
Dual-Pane	-	24" x 80"	29	25
Triple-Pane			30	24
Dual-Panel Laminated, 0.030"			33	29
STC Upgrade			33	28
Double-Hung Windows				
Dual-Pane	-	48" x 60"	28	24
Triple-Pane			28	24
Dual-Panel Laminated, 0.030"			33	29
STC Upgrade			32	27
Double-Hung Picture Windows				
Dual-Pane	-	48" x 60"	31	26
Dual-Panel Laminated, 0.030"			35	30
STC Upgrade			34	30
Specialty Windows				
Dual-Pane	-	48" x 60"	28	24
Dual-Panel Laminated, 0.030"			31	25
STC Upgrade			34	29
French Gliding Patio Doors				
Dual-Pane	French panels with 4 11/16" stiles, 4 11/16" top rail & 8" bottom rail	72" x 80"	29	24
Triple-Pane			30	25
Dual-Panel Laminated, 0.030"			32	29
STC Upgrade			30	28
Hinged Inswing Patio Doors - Single Panel				
Dual-Pane	French panel with 4 11/16" stiles, 4 11/16" top rail & 12" bottom rail	37.875" x 84"	31	26
Triple-Pane			31	27
Dual-Panel Laminated, 0.030"			33	30
STC Upgrade			33	30
Hinged Inswing Patio Doors - Two-Panel				
Dual-Pane	French panels with 4 11/16" stiles, 4 11/16" top rail & 12" bottom rail	74.812" x 84"	30	26
Triple-Pane			31	26
Dual-Panel Laminated, 0.030"			33	30
STC Upgrade			32	29
Hinged Outswing Patio Doors - Single Panel				
Dual-Pane	French panel with 4 11/16" stiles, 4 11/16" top rail & 12" bottom rail	37.875" x 84"	30	26
Triple-Pane			31	26
Dual-Panel Laminated, 0.030"			33	30
STC Upgrade			33	30
Hinged Outswing Patio Doors - Two-Panel				
Dual-Pane	French panels with 4 11/16" stiles, 4 11/16" top rail & 12" bottom rail	74.812" x 84"	29	25
Triple-Pane			30	26
Dual-Panel Laminated, 0.030"			33	30
STC Upgrade			32	29

- "Sound Transmission Class (STC)" & "Outdoor/Indoor Transmission Class (OITC)" ratings are for individual units based on independent tests and represent entire unit.
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- Contact your Andersen supplier for more information.

Notes

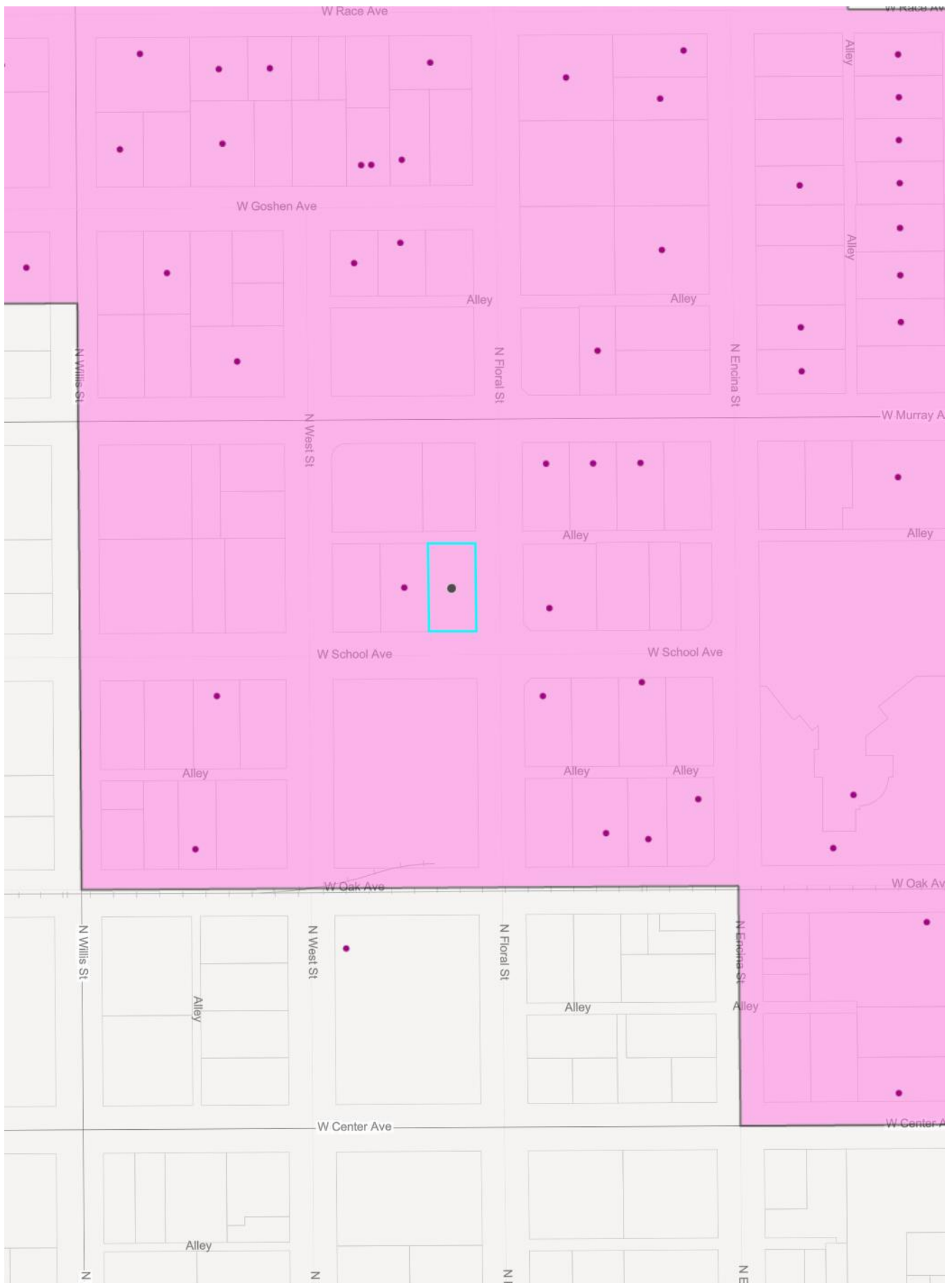


Notes





Aerial Map



Historic District and Local Register Map

HPAC Item No. 2023-10 – 403 North Floral Street – Window Change Out