Casement and Awning Window

- Low maintenance exterior
- Easy to operate
- Slim frame and sash profile maximize the field of view
- Excellent for creating window combinations, as well as bays and bows

Contents

Casement Window
Basic Unit Details - Single Sash Units .................... 1-2
Basic Unit Details - Double Sash Units ................. 1-3
Basic Unit Details - Picture Unit .......................... 1-4
Options / Accessories
  Extension Jambs ................................................ 1-4
  Andersen® Grilles ............................................ 1-5
  Vent Limiter ...................................................... 1-7
Joining Details ...................................................... 1-8
Anchoring Methods ............................................. 1-10
Suggested Product Applications .......................... 1-11

Awning Window
Basic Unit Details - Single Sash Unit .................... 1-13
Basic Unit Details - Picture Unit .......................... 1-14
Options / Accessories
  Extension Jambs ................................................ 1-14
  Andersen® Grilles ............................................ 1-15
  Extension Arm Pack ......................................... 1-17
  Vent Limiter ...................................................... 1-18
  Operators .......................................................... 1-20
Joining Details ...................................................... 1-21
Anchoring Methods ............................................. 1-23
Suggested Product Applications .......................... 1-24
Basic Unit Details - Double Sash Units

Basic Unit
Scale 3" = 1'-0" (1:4)

Vertical Section

Horizontal Section
Basic Unit Details - Picture Unit (P)

Basic Unit
Scale 3" = 1'-0" (1:4)

Options / Accessories

Extension Jams
Scale 3" = 1'-0" (1:4)

Extension jambs available for 4-9/16" (116), 5-1/4" (133), 6-9/16" (167) or 7-1/8"(181) wall thickness. Other wall dimensions can be accommodated with extension jamb modification.

6-9/16" (167) extension jamb is predrilled for easy application.
### Andersen® Divided Light Grilles

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Available now

Available only with 3/8" glass through the Andersen Divided Light program

Please check with Andersen for availability
Options / Accessories

400 Series Grille Options

Andersen® Divided Light Grille
Permanent Exterior
Permanent Interior
with Spacer

Andersen® Divided Light Grille
Permanent Exterior
Permanent Interior

Andersen® Divided Light Grille
Permanent Exterior
Removable Interior

Removable Interior

Andersen® Finelight™ Grilles-Between-the-Glass.

Grille Profiles • Scale = Full • Dimensions include thickness of tape.

Permanent Exterior Fibrex® Material Grille Profiles (chamfer profile). Also used for pre-finished interior, except 400 Series Woodwright® double-hung windows.

Permanent Interior Wood Grille Profiles (chamfer profile).
The Fibrex® material exterior grille is used when a permanent prefinished grille is specified, except with 400 Series Woodwright® double-hung windows.

Removable Interior Wood Grille Profile (roman ogee profile).

Removable Interior Wood Grille Profile (Chamfer profile).
400 Series Woodwright® double-hung windows only.

Permanent Full Divided Light Grille spacer location.

Andersen® Finelight™ Grilles-Between-the-Glass.
**Casement and Awning Window**

**Options / Accessories**

**Casement Vent Limiter**

Scale: None

Split arm vent limiters are available for all casement window sizes. They have three position settings, indicated in the detail below.

**WARNING**

Do not install on windows intended for use as emergency exits. Device will hinder escape or rescue in an emergency.

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See complete instruction guide at www.andersenwindows.com

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See complete instruction guide at www.andersenwindows.com
Joining Details—Andersen® Narrow Joining Materials

**Andersen® Non-Reinforced Joining**
Scale 3" = 1'-0" (1:4)

**Andersen® Aluminum Reinforced Joining**
Scale 3" = 1'-0" (1:4)

**Andersen® Steel Reinforced Joining**
Scale 3" = 1'-0" (1:4)
Joining Details

2" Support Mullion
Scale 3" = 1'-0" (1:4)

Horizontal Section

Joining Compatibility
Many Andersen® units are designed to be joined with other Andersen units in a variety of non-reinforced and reinforced combinations. Other combination types and joining methods can be viewed in the Andersen® Product Guide, in Andersen Window Studio® software, and by visiting andersenwindows.com. Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.

NOTE: Reinforced component details are typical examples for large window combinations that require additional support for windload (lateral load) purposes. Determination of the reinforcing member(s) required for a specific job and appropriate selection of Andersen® products which conform to all applicable laws, ordinances, building codes, and safety requirements is the sole responsibility of the architect, building owner and/or contractor. Check with your local building code officials for specific requirements and with your local Andersen supplier for general information. Andersen strongly recommends consultation with an architect or structural engineer to determine appropriate support and reinforcement. Andersen is not responsible for conditions in, or performance of, adjacent wall or roof construction beyond the perimeter of the Andersen unit, nor the fastening system used.
**Anchoring Methods**

**Installation Flange**
Scale 3" = 1'-0" (1:4)
Casement window is secured in the opening by using fasteners through the installation flange.

**Threaded Masonry Fastener / Expansion Sleeve**
Scale 3" = 1'-0" (1:4)
To secure a casement window unit in an opening, remove the sash stops and pre-drill through the side jambs for fastener installation.

**Jamb Clip**
Scale 3" = 1'-0" (1:4)
Casement window unit secured in opening by others using Andersen® 302 stainless steel sheet metal jamb clips and stainless steel screws. Bend the jamb clips to secure unit fit in opening. Installation flange can be cut as required to accommodate the jamb clips.

**APPLICATION:**
- First secure jamb clip to back side of window unit jamb(s)
- Apply 12" apart on center starting 6" from corners of head jamb, sill and side jambs
- Jamb clip lateral design load capacity: maximum 200 lb.

**CAUTION**
Unit will not operate properly if frame parts are stressed. Make sure that the unit frame parts do not become bowed when using anchoring methods.
**Suggested Product Applications**

**Wall Types** Scale 1-1/2" = 1'-0" (1:8)

**Vertical Section**
Wood Siding / 2 x 4 Wood Stud Framing

**Vertical Section**
Brick Veneer / 2 x 6" Metal Stud Framing

**Importance of Proper Installation**
Proper installation and maintenance of Andersen® products are essential if optimum performance is to be fully attained. Written installation instructions which provide guidelines for proper installation are available for Andersen products from your local Andersen supplier or by writing to: Andersen Windows, Inc., Box 12, Bayport, MN 55003 or by visiting our website at www.andersenwindows.com. Remember that every installation is different. Andersen strongly recommends consultation with an Andersen product representative and with an experienced contractor, architect, or structural engineer prior to the installation of any Andersen product. Installation of Andersen products, including method of attachment, fastener selection, and code compliance is the sole responsibility of the architect, building owner, contractor, and/or consumer.

**Construction by Others**
Andersen Corporation is not responsible for the design of, conditions in, or performance of, adjacent wall or roof construction beyond the perimeter of the Andersen units. Proper integration of the Andersen units with the weather-repellent system of the building is the responsibility of others.

**NOTE:** Where E.I.F.S. wall finish is adjacent to window units, contact E.I.F.S. manufacturer for installation instructions, including the use of appropriate flashing, the proper use of sealant and backer rod, and the proper width of sealant joint around the perimeter of the window.

**NOTE:** Leave adequate clearance between sill and masonry for caulk and dimensional change of framework. Installation flange may be removed where construction sequence/detailsing requires no flange.
**Suggested Product Applications**

**Wall Types** Scale 1-1/2" = 1'-0" (1:8)

**Vertical Section**
- **Brick / Concrete Masonry Unit (CMU)**
  - Optional Andersen® auxiliary casing
  - Vertical Section

**Vertical Section**
- **Stucco / Concrete Masonry Unit (CMU) Inset Window**
  - Vertical Section

**Vertical Section**
- **Existing Stud Wall**

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Basic Unit Details - Single Sash Unit

Basic Unit

Scale 3" = 1'-0" (1:4)
Basic Unit Details - Picture Unit (P)

**Basic Unit**
Scale 3" = 1'-0" (1:4)

Vertically:
- **Face:** 4-9/32" (109)
- **Face:** 3-23/32" (95)
- **4-9/16" Wall:**
  - Face: 1-23/32" (44)
  - 1-1/16" (17)
  - 1-3/16" (30)
  - 1-1/8" (29)
- **5-1/4" Wall:**
  - Face: 1-3/16" (30)
  - Unit Dimension Width: 2-3/8" (60)
  - Rough Opening Width: 2-7/8" (72)
- **6-9/16" Wall:**
  - Face: 2-13/32" (61)
  - Unit Dimension Width: 2-3/8" (60)
  - Rough Opening Width: 3" (72)
- **7-1/8" Wall:**
  - Face: 2-3/8" (60)
  - Unit Dimension Width: 3" (72)
  - Rough Opening Width: 3-1/4" (83)

Horizontally:
- **Optional Andersen® extension jamb**
- **Vertical Section**
- **Horizontal Section**

**Options / Accessories**

**Extension Jambs**
Scale 3" = 1'-0" (1:4)

Extension jambs available for 4-9/16" (116), 5-1/4" (133), 6-9/16" (167) or 7-1/8" (181) wall thickness. Other wall dimensions can be accommodated with extension jamb modification.

6-9/16" (167) extension jambs are predrilled for easy application.
# Andersen® Divided Light Grilles

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<th>Andersen 400 Series Doors</th>
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<td><img src="singlepane.png" alt="Single-Pane Impact" /></td>
</tr>
</tbody>
</table>

*Available now
*Available only with 3/8" glass through the Andersen Divided Light program
*Please check with Andersen for availability

---

**Options / Accessories**

- Andersen® Divided Light Grilles
- Available now
- Available only with 3/8" glass through the Andersen Divided Light program
- Please check with Andersen for availability

**Andersen® 400 Series Windows**

- Casement & Awning
- Glimpse Window
- Woodwright® Double-Hung & Transom
- Woodwright® Picture Window
- Woodwright® Archtop & Unequal Leg Archtop
- Woodwright® Springline® Single-Hung
- Tilt-Wash Double-Hung & Transom
- Tile-Wash Picture Window
- Circle Top, Quarter Round
- Arch
- Spiralview®
- Frenché
- Elliptical
- Circle & Oval
- Gothic

**Andersen® 400 Series Doors**

- 200 Series Narroline® Double-Hung & Transom
- Frenchwood® Gliding
- Frenchwood® Hinged Inswing
- Frenchwood® Hinged Outswing
- Frenchwood® Patio Door Sidelights & Transoms

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**Glass Patterns Interior Type Width Exterior Color**

- 3/8" Low-E/Temp
- Single-Pane Impact

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**Andersen® 400 Series Windows**

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Options / Accessories
400 Series Grille Options

Andersen® Divided Light Grille
Permanent Exterior
Permanent Interior
with Spacer

Andersen® Divided Light Grille
Permanent Exterior
Permanent Interior

Andersen® Divided Light Grille
Permanent Exterior
Removable Interior

Andersen® Finelight™
Grilles-Between-the-Glass

Grille Profiles • Scale = Full • Dimensions include thickness of tape.

Permanent Exterior Fibrex® Material Grille Profiles (chamfer profile). Also used for pre-finished interior, except 400 Series Woodwright® double-hung windows.

Permanent Interior Wood Grille Profiles (chamfer profile).
The Fibrex® material exterior grille is used when a permanent prefinished grille is specified, except with 400 Series Woodwright® double-hung windows.

Removable Interior Wood Grille Profile (roman ogee profile).

Removable Interior Wood Grille Profile (Chamfer profile).
400 Series Woodwright® double-hung windows only.

Permanent Full Divided Light Grille spacer location.

Andersen® Finelight™ Grilles-Between-the-Glass.
Options / Accessories

Extension Arm Pack
Scale 3" = 1'-0" (1:4)

For venting awning windows A3 and wider. Adds approximately 3-3/4" to opening depth.

See the installation guide at www.andersenwindows.com for installation details.

- Attach extension arm to operator arm.
- Remove standard operator rod.
- Remove standard operator shoe from operator arm.
- Attach long operator rod.
- Long operator rod
- Extension arm
- Operator arm

Standard Operator

Operator with Extension Arm
Options / Accessories

Awning Vent Limiter - 2001 to present
Scale: None

Split arm vent limiters are available for awning window sizes excluding A335, A3535, AP32V, AP352V and AP42V units. They have two position settings, indicated in the detail below.

**WARNING**

Do not install on windows intended for use as emergency exits. Device will hinder escape or rescue in an emergency.

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### Position A

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>A1</th>
<th>A2</th>
<th>B1</th>
<th>B2</th>
<th>C1</th>
<th>C2</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR heights 1-7/16&quot;</td>
<td>3-3/8&quot;</td>
<td>3-5/16&quot;</td>
<td>5-5/16&quot;</td>
<td>13.56°</td>
<td>22.07°</td>
<td></td>
</tr>
<tr>
<td>AN heights 2-3/16&quot;</td>
<td>4-11/16&quot;</td>
<td>4-1/8&quot;</td>
<td>6-5/8&quot;</td>
<td>13.56°</td>
<td>22.07°</td>
<td></td>
</tr>
<tr>
<td>A heights 3&quot;</td>
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<td></td>
<td></td>
</tr>
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<td>AW heights 4&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AX heights 4-15/16&quot;</td>
<td>6-7/8&quot;</td>
<td>13.56°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AXW heights 5-3/4&quot;</td>
<td>7-3/4&quot;</td>
<td>13.56°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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See complete instruction guide at www.andersenwindows.com
Options / Accessories

Vent Control Adaptor - 1978 to 2001
Scale 3" = 1'-0" (1:4)

For installation on both jambbs. (Use to reduce opening depth—adjustable.)

1. Remove the stopper screw that is located at the end of the hinge channel.
2. Install the vent control adaptor into the channel. Align the slot in the adaptor to the stopper screw hole.
3. Apply the stopper screw.
4. Close the window to the desired maximum opening, slide the vent control adaptor up as far as possible, and tighten the stopper screw.

**WARNING**

**DO NOT** use limited vent hardware on windows intended for use as emergency exits. Emergency escape or rescue may be hindered.
**Options / Accessories**

**Operators**

**Electric Window Opener**
For out-of-reach installations, the electric opener provides convenient power operation.

**Operation of Multiple Units**
For power operation with multiple units, purchase 1 electric window opener set for first window and 1 power operator set for each additional sash. Power operators can be added for up to three additional sash for each window opener set.

**Parts for the electric window opener for include:**
- 1 power supply (converts 110 AC to DC)
- 1 command center with 10' cord (controls 4 operators maximum)
- 1 power operator (DC motor) with bracket and 10' cord
- 1 rain sensor
- 1 insect screen safety connector
- 1 roof window mounting bracket
- 1 Perma-Shield® awning mounting bracket
- All mounting screws and instructions

**Operator Offset Extension Pole**
For out-of-reach installations, this extension pole easily controls the vent operator and shade. Pole adjusts from 6' to 10' in length. Each vent operator extension pole includes one hex socket adaptor.

**Flexible Extension Pole Tip**
The flexible extension pole tip is used on the venting extension pole for steep pitched installations.

**Hex Socket Adaptor**
For out-of-reach installations when using an extension pole. It replaces the operator handle. Each vent operator extension pole (shown above) includes one hex socket adaptor.

**Vertical Section**

**Typical Electric Opener System Installation**
See the installation guide at www.andersenwindows.com for installation details.

**Installation Accessories**
Up to four window sash can be operated from one command center. 10 or 20 ft. extension cords are available for use with either the command center or the power operator (power operator and command center come with 10' cord).
Joining Details—Andersen® Narrow Joining Materials

**Andersen® Non-Reinforced Joining**
Scale 3" = 1'-0" (1:4)

![Horizontal Section](image1)

![Vertical Section](image2)

**Andersen® Aluminum Reinforced Joining**
Scale 3" = 1'-0" (1:4)

![Horizontal Section](image3)

![Vertical Section](image4)

**Andersen® Steel Reinforced Joining**
Scale 3" = 1'-0" (1:4)

![Horizontal Section](image5)

![Vertical Section](image6)
Joining Details

**Support Mullion**
Scale 3" = 1'-0" (1:4)

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**Joining Compatibility**
Many Andersen® units are designed to be joined with other Andersen units in a variety of non-reinforced and reinforced combinations. Other combination types and joining methods can be viewed in the Andersen® Product Guide, in Andersen Window Studio® software, and by visiting andersenwindows.com. **Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.**
Anchoring Methods

Installation Flange
Scale 3" = 1'-0" (1:4)
Awning window is secured in the opening by using fasteners through the installation flange.

Threaded Masonry Fastener / Expansion Sleeve
Scale 3" = 1'-0" (1:4)
To secure a casement window unit in an opening, remove the sash stops and pre-drill through the side jambs for fastener installation.

Jamb Clip
Scale 3" = 1'-0" (1:4)
Awning window unit secured in opening by others using Andersen® 302 stainless steel sheet metal jamb clips and stainless steel screws. Bend the jamb clips to secure unit fit in opening. Installation flange can be cut as required to accommodate the jamb clips.

APPLICATION:
- First secure jamb clip to back side of window unit jamb(s)
- Apply 12" apart on center starting 6" from corners of head jamb, sill and side jambs
- Jamb clip lateral design load capacity: maximum 200 lb.

CAUTION
Make sure that the unit frame parts do not become bowed when using anchoring methods. Unit will not operate properly if frame parts are stressed.
Wall Types

Suggested Product Applications

**Vertical Section**  
Wood Siding / 2 x 4 Wood Stud Framing

**Vertical Section**  
Brick Veneer / 2 x 6" Metal Stud Framing

**Importance of Proper Installation**

Proper installation and maintenance of Andersen® products are essential if optimum performance is to be fully attained. Written installation instructions which provide guidelines for proper installation are available for Andersen products from your local Andersen supplier or by writing to: Andersen Windows, Inc., Box 12, Bayport, MN 55003 or by visiting our website at www.andersenwindows.com. Remember that every installation is different. Andersen strongly recommends consultation with an Andersen product representative and with an experienced contractor, architect, or structural engineer prior to the installation of any Andersen product. Installation of Andersen products, including method of attachment, fastener selection, and code compliance is the sole responsibility of the architect, building owner, contractor, and/or consumer.

**Construction by Others**

Andersen Corporation is not responsible for the design of, conditions in, or performance of, adjacent wall or roof construction beyond the perimeter of the Andersen units. Proper integration of the Andersen units with the weather-repellent system of the building is the responsibility of others.

**NOTE:** Where E.I.F.S. wall finish is adjacent to window units, contact E.I.F.S. manufacturer for installation instructions, including the use of appropriate flashing, the proper use of sealant and backer rod, and the proper width of sealant joint around the perimeter of the window.

**NOTE:** Leave adequate clearance between sill and masonry for caulking and dimensional change of framework. Installation flange may be removed where construction sequence’ detailing requires no flange.
Suggested Product Applications

Wall Types
Scale 1-1/2" = 1'-0" (1:8)

**Vertical Section**
- Brick / Concrete Masonry Unit (CMU)
- Stucco / Concrete Masonry Unit (CMU) Inset Window
- Existing Stud Wall

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Proper installation and maintenance of Andersen® products are essential if optimum performance is to be fully attained. Written installation instructions which provide guidelines for proper installation are available for Andersen products from your local Andersen supplier or by writing to: Andersen Windows, Inc., Box 12, Bayport, MN 55003 or by visiting our website at www.andersenwindows.com. Remember that every installation is different. Andersen strongly recommends consultation with an Andersen product representative and with an experienced contractor, architect, or structural engineer prior to the installation of any Andersen product. Installation of Andersen products, including method of attachment, fastener selection, and code compliance is the sole responsibility of the architect, building owner, contractor, and/or consumer.

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