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Compatible sizes and jamb configurations facilitate joining Circle Top™ and elliptical units with other Andersen® windows and doors to create combinations.

- Low maintenance exteriors with natural wood interiors
- Excellent for creating window combinations
- Inside arch casings simplify interior trim application

Standard sizes are available in hundreds of sizes and shapes. Flexiframe” and custom arch windows allow you to create custom windows.

- Low maintenance exteriors with natural wood interiors
- Create large window combinations
- Custom design capability

Circle Top™, Quarter Round & Elliptical Windows

Circle & Oval Windows

Flexiframe® Windows

Custom Arch, Springline™ & Enhancement Windows
Basic Unit Details

Circle Top™ and Quarter Round Basic Unit
(for casement and awning sizes)
Scale 3" = 1'-0" (1:4)

Vertical Section
Circle Top

Vertical Section
Quarter Round

Circle Top™ Basic Unit
(for double-hung sizes)
Scale 3" = 1'-0" (1:4)

Vertical Section
Basic Unit Details

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

Circle and Oval Basic Unit
Scale 3" = 1'-0" (1:4)
### Andersen® Divided Light Grilles

<table>
<thead>
<tr>
<th>Exterior Color</th>
<th>Andersen® 400 Series Windows</th>
<th>Andersen® 400 Series Doors</th>
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<tr>
<th>Width</th>
<th>Casement &amp; Awning</th>
<th>Casement Picture Window</th>
<th>Gliding Window</th>
<th>Woodwright® Double-Hung &amp; Transom</th>
<th>Woodwright® Picture Window</th>
<th>Woodwright® Acrotop &amp; Unequal Leg Acrotop</th>
<th>Woodwright® Single-Hung</th>
<th>Tilt-Wash Double-Hung &amp; Transom</th>
<th>Tilt-Wash Picture Window</th>
<th>Circle Byp™ &amp; Quarter Round</th>
<th>Arch</th>
<th>Spring®</th>
<th>Flexframe®</th>
<th>Eliptical</th>
<th>Circle &amp; Oval</th>
<th>Gothic</th>
<th>200 Series Narline® Double-Hung &amp; Transom</th>
<th>Frenchwood® Gliding</th>
<th>Frenchwood® Hinged Inswing</th>
<th>Frenchwood® Hinged Outswing</th>
<th>Frenchwood® Pat Door Sidelights &amp; Transoms</th>
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<th>Pine</th>
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<th>Modified Colonial</th>
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<th>Short Fractional</th>
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<th>Specified Equal Light</th>
<th>Custom</th>
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<th>HP Sun/HP Sun Temp</th>
<th>3/8” Low-E/Temp</th>
<th>Single-Pane Impact</th>
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</table>

- 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

**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.**
Extension Jambs for Circle Top™ (casement/awning size), Circle and Oval Windows
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" extension jamb is predrilled for easy application.

Horizontal Section

Extension Jambs for Circle Top™ (double-hung size) Windows
Scale 3" = 1'-0" (1:4)

Horizontal Section
Options / Accessories

Extension Jambs for Elliptical Unit
Scale 3" = 1'-0" (1:4)

Extension Jambs for Elliptical Unit for Frenchwood® Gliding Door
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.
Specialty Windows

Transition Piece / Key Block

Optional Andersen® key component (circle style shown)
Optional Andersen® key block

Optional Andersen® transition piece arch casing
Optional Andersen® transition piece extension jamb
Standard Andersen® transition piece stop (circle style shown)

Circle (Oval similar)
Trim Options and Applications—Circle and Oval

Key Block/Key Component

Scale: Half
Available in maple or oak.
Transition Piece

Available in maple or oak.

Standard Andersen® transition piece casing

3/8" (10) for 3-1/2" (89) casing
1" (25) for 2-1/4" (57) and 2-1/2" (64) casing
2-11/16" (68) for 3-1/2" (89) casing
2-1/2" (64) for 2-1/4" (57) and 2-1/2" (64) casing

Optional Andersen® transition piece extension jamb

4-1/8" (105) for 3-1/2" (89) casing
3" (76) for 2-1/4" (57) and 2-1/2" (64) casing

Standard Andersen® transition piece stop (circle style shown)

1-5/8" (41) for 3-1/2" (89) casing
1-7/16" (37) for 2-1/4" (57) and 2-1/2" (64) casing
1-1/2" (38) for 3-1/2" (89) casing
1-3/16" (30) for 2-1/4" (57) and 2-1/2" (64) casing

Cut to fit - 36" (914) lengths available
Trim Options and Applications—Circle Top™ and Elliptical Windows

Plinth Blocks

Scale: Half
Available in maple or oak.

Optional Andersen®
interior arch casing
(Colonial or Ranch styles)

Optional Andersen®
transom casing

Optional Andersen®
plinth blocks

Interior trim by others

For use with 2-1/4" or 2-1/2" (57mm or 64mm) casing.

For use with 3-1/2" (89mm) casing.

2-7/8" (73mm) 1-1/8" R
2-7/8" (73mm) 7/8" (22mm)

3-7/8" (98mm) 1-1/2" R
3-7/8" (98mm) 7/8" (22mm)
**Interior Casing**

Scale: Full
Available for all curved portions of windows.

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**Ranch Style - WM 324**
2-1/4" x 11/16" (57mm x 17mm)
Available in select hardwoods.

**Colonial Style - WM 351**
2-1/2" x 11/16" (64mm x 17mm)
Available in select hardwoods.

**Colonial Style - WM 366**
2-1/4" x 11/16" (57mm x 17mm)
Available in select hardwoods.

**Colonial Style - WM 444**
3-1/2" x 11/16" (89mm x 17mm)
Available in select hardwoods.

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**Circle Top™ Windows (casement/awning type), Circle and Oval**

**Ranch Style - WM 315**
2-1/2" x 11/16" (64mm x 17mm)
Available in select hardwoods.

**Colonial Style - WM 444**
3-1/2" x 11/16" (89mm x 17mm)
Available in select hardwoods.
Joining Details—Circle Top™, Elliptical, Circle and Oval Windows

Circle Top™ Window over Casement
Scale 3" = 1'-0" (1:4)
For narrow wood, narrow aluminum and narrow steel joining materials:
Overall unit dimension height = the sum of the individual unit heights + 1/8" (3mm)
Overall rough opening height = the sum of the individual unit heights + 5/8" (16mm)

Circle Top™ Window over Awning
Scale 3" = 1'-0" (1:4)
For narrow wood, narrow aluminum and narrow steel joining materials:
Overall unit dimension height = the sum of the individual unit heights + 1/8" (3mm)
Overall rough opening height = the sum of the individual unit heights + 5/8" (16mm)

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 www.andersenwindows.com. Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.
Joining Details—Circle Top™, Elliptical, Circle and Oval Windows

Circle Top™ Window over Narrolene® Double-Hung Window  Scale 3" = 1'-0" (1:4)

Non-Reinforced Transom

For narrow wood joining material:
Overall unit dimension height = the sum of the individual unit heights – 3/8" (10mm)
Overall rough opening height = the sum of the individual unit heights – 3/8" (10mm)

Steel Reinforced Transom

For narrow steel joining material:
Overall unit dimension height = the sum of the individual unit heights – 3/16" (5mm)
Overall rough opening height = the sum of the individual unit heights – 3/16" (5mm)

Circle Top™ Window over Tilt-Wash Double-Hung Window

Non-Reinforced Transom

For narrow wood joining material:
Overall unit dimension height = the sum of the individual unit heights + 0" (0mm)
Overall rough opening height = the sum of the individual unit heights + 0" (0mm)

Steel Reinforced Transom

For narrow steel joining material:
Overall unit dimension height = the sum of the individual unit heights + 0" (0mm)
Overall rough opening height = the sum of the individual unit heights + 0" (0mm)

Circle Top™ Window over Circle Top™ Window
(casement/awning type)  Scale 3" = 1'-0" (1:4)

Non-Reinforced Wood Joining

Circle Top™ Window over Circle Top™ Window
(double-hung type)  Scale 3" = 1'-0" (1:4)

Non-Reinforced Joining
Joining Details—Circle Top™, Elliptical, Circle and Oval Windows

Elliptical over Frenchwood® Hinged Patio Door

**Non-Reinforced Transom**
For narrow wood joining material:
Overall unit dimension height = the sum of the individual unit heights + 1/8" (3mm)
Overall rough opening height = the sum of the individual unit heights + 5/8" (16mm)

**Steel Reinforced Transom**
For narrow steel joining material:
Overall unit dimension height = the sum of the individual unit heights + 1/8" (3mm)
Overall rough opening height = the sum of the individual unit heights + 5/8" (16mm)

Elliptical over Frenchwood® Gliding Patio Door

**Non-Reinforced Transom**
For narrow wood joining material:
Overall unit dimension height = the sum of the individual unit heights + 3/8" (10mm)
Overall rough opening height = the sum of the individual unit heights + 7/8" (22mm)

**Steel Reinforced Transom**
For narrow steel joining material:
Overall unit dimension height = the sum of the individual unit heights + 3/8" (10mm)
Overall rough opening height = the sum of the individual unit heights + 7/8" (22mm)

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 www.andersenwindows.com. Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.
Joining Details—Circle Top™, Elliptical, Circle and Oval Windows

Elliptical over Narroline® Double-Hung Window

Scale 3” = 1’.0” (1:4)

- **Non-Reinforced Transom**
  
  For narrow wood joining material:
  
  Overall unit dimension height = the sum of the individual unit heights – 3/8” (10mm)
  
  Overall rough opening height = the sum of the individual unit heights – 3/8” (10mm)

- **Steel Reinforced Transom**
  
  For narrow steel joining material:
  
  Overall unit dimension height = the sum of the individual unit heights – 3/16” (5mm)
  
  Overall rough opening height = the sum of the individual unit heights – 3/16” (5mm)

Elliptical over Tilt-Wash Double-Hung Window

Scale 3” = 1’.0” (1:4)

- **Non-Reinforced Transom**
  
  For narrow wood joining material:
  
  Overall unit dimension height = the sum of the individual unit heights + 0” (0mm)
  
  Overall rough opening height = the sum of the individual unit heights + 0” (0mm)

- **Steel Reinforced Transom**
  
  For narrow steel joining material:
  
  Overall unit dimension height = the sum of the individual unit heights + 0” (0mm)
  
  Overall rough opening height = the sum of the individual unit heights + 0” (0mm)

**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 www.andersenwindows.com. Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.
Anchoring Methods—Circle Top™, Elliptical, Circle and Oval Windows

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

**Threaded Masonry Fastener / Expansion Sleeve**
Scale 3" = 1'-0" (1:4)
Window unit is secured in the opening by securing a side jamb clip to the unit, pre-drilling into masonry, inserting expansion sleeve, and driving flat head screw. Vinyl flange to be cut, or removed, as required.

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

**APPLICATION:**
- First secure jamb clip to back side of window unit jamb(s)
- Apply 1" from corners of head jamb, sill and side jambs
- Space jamb clips evenly (maximum distance apart 32" on center)
- Jamb clip lateral design load capacity: maximum 200 lb.

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**Optional Andersen® auxiliary casing**
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.
**Suggested Product Applications—Circle Top™ for Casement / Awning Windows**

**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 caulking and dimensional change of framework. Installation flange may be removed where construction sequence/detailing requires no flange.
Suggested Product Applications—Circle Top™ for Casement / Awning Windows

**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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**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—Circle Top™ for Double-Hung Windows**

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

**Vertical Section**
- **Wood Siding / 2 x 4 Wood Stud Framing**
  - Optional Andersen® 3/4" x 5-1/2" (19 x 140) vinyl trim board
  - Andersen® Woodwright® unit

**Vertical Section**
- **Brick Veneer / 2 x 6" Metal Stud Framing**
  - Optional Andersen® inside transom casing
  - Andersen® Woodwright® unit

**Importance of Proper Installation**

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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/detaling requires no flange.
Suggested Product Applications—Circle Top™ for Double-Hung Windows

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

**Vertical Section**

**Brick / Concrete Masonry Unit (CMU)**

**Vertical Section**

**Stucco / Concrete Masonry Unit (CMU) Inset Window**

**Vertical Section**

**Existing Stud Wall**

**Vertical Section**

**Existing Masonry Wall**

**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.

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**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—Elliptical Windows

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

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Suggested Product Applications—Elliptical Windows

Wall Types Scale 1-1/2” = 1'-0" (1:8)

**Vertical Section**
Brick / Concrete Masonry Unit (CMU)

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

**Vertical Section**
Existing Stud Wall

---

**Importance of Proper Installation**

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## Suggested Product Applications—Circle and Oval Windows

### Wall Types

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

**Vertical Section**

- **Wood Siding / 2 x 4 Wood Stud Framing**
  - Nailing flange all around
  - Extend and attach vapor barrier to unit frame (by others)
  - Optional Andersen® key block
  - Standard Andersen transition block for circle unit
  - Optional Andersen extension jambs and transition pieces
  - Optional Andersen interior arch casing and transition pieces

**Vertical Section**

- **Brick Veneer / 2 x 6" Metal Stud Framing**
  - 1/2" (13)* minimum
  - Extend and attach installation flange at head
  - Standard Andersen transition block for circle unit

**Vertical Section**

- **E.I.F.S. / Concrete Masonry Unit (CMU)**
  - Head
  - Sill
  - Membrane flashing over installation flange (by others)

## Importance of Proper Installation

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## Construction by Others

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**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—Circle and Oval Windows

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

Vertical Section
Brick / Concrete Masonry Unit (CMU)

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

Vertical Section
Existing Stud Wall

Importance of Proper Installation

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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.
Basic Unit Details

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

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

Horizontal and Vertical Section

Vertical Section
Springline™ Basic Unit
Scale 3" = 1'-0" (1:4)

Vertical Section

Horizontal Section

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

Vertical Section

Horizontal Section
Basic Unit Details

**Enhancement Full Chord Basic Unit**

for joining with casement, awning, double-hung, Frenchwood® hinged and Frenchwood® gliding patio doors

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

### Vertical Section

- **Enhancement Full Chord Basic Unit**
- **Scale 3" = 1'-0" (1:4)**
- **Rough Opening Height**: 1" (6)
- **Unit Dimension Height**: 2-3/8" (60)
- **Head**: Reversible or removable installation
- **Flexible leg**
- **Rigid notched leg**
- **Arch laminated maple**
- **Wood frame**
- **Clad aluminum**

### Horizontal Section

- **Rough Opening Width**: 1-3/8" (35)
- **Unit Dimension Width**: 2-7/8" (73)
- **Jamb**: Reversible or removable installation flank
- **Clad aluminum**
- **Arch laminated maple**

---

**Enhancement Gothic Basic Unit**

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

### Vertical Section

- **Enhancement Gothic Basic Unit**
- **Scale 3" = 1'-0" (1:4)**
- **Rough Opening Height**: 1" (6)
- **Unit Dimension Height**: 2-3/8" (60)
- **Head**: Wood frame
- **Flexible leg**
- **Rigid notched leg**
- **Wood frame** (frame is laminated maple at curved portion only)
- **Clad aluminum**

### Horizontal Section

- **Rough Opening Width**: 1-3/8" (35)
- **Unit Dimension Width**: 1-5/16" (33)
- **Jamb**: Reversible or removable installation flank
- **Clad aluminum**
- **Arch laminated maple**
- **Wood frame**
Enhancement Monumental Quarter Round Basic Unit
Scale 3" = 1'-0 (1:4)

Horizontal Section
Vertical Section

Enhancement Monumental Full Round Basic Unit
Scale 3" = 1'-0 (1:4)

Enhancement Octagon Basic Unit
Scale 3" = 1'-0 (1:4)
 Specifying A Custom Arch Unit
Custom arch windows are specified by identifying the unit width, the unit height (or shoulder height), and the radius.

**Equal Leg Arch**
Custom equal leg arch window units have two sides (shoulder heights) of equal length.

**Unequal Leg Arch**
Custom unequal leg arch window units have two sides of different lengths.

**Partial Chord Arch**
Custom partial chord arch window units have one straight side and one arched side.

There are certain factors that must be considered when deciding on a custom arch size or shape. Some of these factors are listed at right. For more specific design criteria, mullion joining guidelines, and sizing assistance, contact your Andersen® window and patio door supplier.

- Tempered glass may be required on large units. Contact your local building code office for specifics.
- Maximum width for mullion joined combinations equals 2 x radius.
- At least one unit dimension (height or width) must not exceed 7'-0".
- Contact your Andersen supplier when specifying High-Impact coastal units.

### Custom Arch Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radii Choices</td>
<td>18-3/4&quot;, 2', 32-1/4&quot;, 3', 4', 5', 6', 8', and 16'</td>
</tr>
<tr>
<td>Type of Operation</td>
<td>Stationary only</td>
</tr>
<tr>
<td>Maximum Single Unit Height</td>
<td>12' 0&quot;</td>
</tr>
<tr>
<td>Maximum Single Unit Width</td>
<td>See tables below and on opposite page</td>
</tr>
<tr>
<td>Minimum Dim.</td>
<td>No leg can be less than 6&quot;</td>
</tr>
<tr>
<td>Max. Sq. Ft. Area</td>
<td>Not to exceed 60 sq. ft.</td>
</tr>
<tr>
<td>Minimum Width</td>
<td>14&quot; (for equal &amp; unequal leg units)</td>
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**Equal Leg Design Parameters**

<table>
<thead>
<tr>
<th>Unit Radius</th>
<th>Maximum Unit Width</th>
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<tbody>
<tr>
<td>18.750&quot; radius</td>
<td>B = 36.750&quot;</td>
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<tr>
<td>24.000&quot; radius</td>
<td>B = 47.250&quot;</td>
</tr>
<tr>
<td>32.250&quot; radius</td>
<td>B = 63.750&quot;</td>
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<td>36.000&quot; radius</td>
<td>B = 71.250&quot;</td>
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<td>48.000&quot; radius</td>
<td>B = 95.250&quot;</td>
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<td>60.000&quot; radius</td>
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<tr>
<td>72.000&quot; radius</td>
<td>B = 72.625&quot;</td>
</tr>
<tr>
<td>96.000&quot; radius</td>
<td>B = 96.125&quot;</td>
</tr>
<tr>
<td>192.000&quot; radius</td>
<td>B = 147.000&quot;</td>
</tr>
</tbody>
</table>

**Maximum Area**
The area (the product of the sill width multiplied by the height of the unit) must not exceed 60 square feet.
Design Parameters for Custom Arch Windows

Unequal Leg Design Parameters

A = the maximum offset dimension away from the center of the circle

<table>
<thead>
<tr>
<th>Unit Radius</th>
<th>Maximum Offset from Center</th>
<th>Maximum Unit Width</th>
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<tbody>
<tr>
<td>18.750&quot; radius</td>
<td>A = 4.000&quot;</td>
<td>B = 18.750&quot;</td>
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<td>24.000&quot; radius</td>
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<td>72.000&quot; radius</td>
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<td>B = 62.375&quot;</td>
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<tr>
<td>96.000&quot; radius</td>
<td>A = 72.000&quot;</td>
<td>B = 83.125&quot;</td>
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<tr>
<td>192.000&quot; radius</td>
<td>A = 156.000&quot;</td>
<td>B = 121.000&quot;</td>
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Partial Chord Design Parameters

A = the maximum offset dimension away from the center of the circle

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<tr>
<th>Unit Radius</th>
<th>Maximum Offset from Center</th>
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<td>192.000&quot; radius</td>
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### Andersen® Divided Light Grilles

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<tr>
<th>Exterior Color</th>
<th>Andersen® 400 Series Windows</th>
<th>Andersen® 400 Series Doors</th>
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<td>Terratone®</td>
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<td>Forest Green</td>
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<th>Width</th>
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<tr>
<td>Modified Col W/Check Rail</td>
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</table>
**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.

- **Fibrex® material exterior grille**
  - Permanent Exterior Fibrex® Material Grille Profiles (chamfer profile).
  - Permanent Interior Wood Grille Profiles (chamfer profile).

**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 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" extension jamb is predrilled for easy application.
Trim Options and Applications - Arch Windows

Transom Joining of Equal Leg Arch

Arch Combination

Arch Palladian / Casement Combination
Transom Joining of Partial Chord Arch

Extension Jamb Trim-out

Arch interior casing

Arch extension jamb

Plinth block

Angle cut extension jamb. Plinth block or casing will conceal gap.

Lineal interior casing by others
Trim Options and Applications - Springline™ Windows

Transition Piece / Key Block / Plinth Block

Note: All Springline™ units require a transition piece. Andersen® casing is not continuous.
Trim Options and Applications - Springline™ Windows

Key Block / Key Component

Scale: Half
Available in maple or oak.
Trim Options and Applications - Springline™ Windows

Transition Piece

Scale: Half
Available in maple or oak

- Standard Andersen® transition piece casing
- Optional Andersen® transition piece extension jamb
  - 4-1/8" (105) for 3-1/2" (89) casing
  - 3" (76) for 2-1/4" (57) and 2-1/2" (64) casing
  - 1-5/8" (41) for 3-1/2" (89) casing
  - 1-7/16" (37) for 2-1/4" (57) and 2-1/2" (64) casing
- Standard Andersen® transition piece stop (circle style shown)
  - 9/16" (14)
  - 1-3/16" (30) for 2-1/4" (57) and 2-1/2" (64) casing
- Cut to fit - 36" (914) lengths available

- 2-11/16" (68)

- Optional Andersen® transition piece extension jamb
  - 1-1/2" (38)
  - 1-3/16" (30) for 2-1/4" (57) and 2-1/2" (64) casing

- Standard Andersen® transition piece casing
  - 1-5/8" (41)
  - 1-3/16" (30) for 2-1/4" (57) and 2-1/2" (64) casing
Trim Options

Plinth Block
Scale: Half
Available in maple or oak

For use with 2-1/4" or 2-1/2" (57mm or 64mm) casing.

For use with 3-1/2" (89mm) casing.

For use with 3-1/2" (89mm) casing.

For use with 3-1/2" (89mm) casing.
**Trim Options**

**Interior Casing**

*Scale: Full*

Available for curved portion of all specialty windows.

- **Ranch Style - WM 324**
  - 2-1/4" x 11/16" (57mm x 17mm)
  - Available in maple or oak.

- **Colonial Style - WM 366**
  - 2-1/4" x 11/16" (57mm x 17mm)
  - Available in maple or oak.

- **Ranch Style - WM 315**
  - 2-1/2" x 11/16" (64mm x 17mm)
  - Available in maple only.

- **Colonial Style - WM 351**
  - 2-1/2" x 11/16" (64mm x 17mm)
  - Available in maple only.

- **Colonial Style - WM 444**
  - 3-1/2" x 11/16" (89mm x 17mm)
  - Available in maple or oak.
Joining Details—Flexiframe®, Arch, Springline™, Enhancement Windows

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)

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

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 www.andersenwindows.com. Combination designs should always be checked for design pressure performance requirements to ensure the appropriate joining method is specified.
**Installation Flange**

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

Window is secured in the opening by using threaded fasteners through the installation flange.

**Installation Flange Reversed**

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

**Through Jamb Attachment**

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

Windows over 30 square feet in size must be secured through the side jambs.

**Threaded Masonry Fastener / Expansion Sleeve**

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

Window unit is secured in the opening by securing a side jamb clip to the unit, pre-drilling into masonry, inserting expansion sleeve, and driving flat head screw. Vinyl flange to be cut, or removed, as required.

**Jamb Clip**

Window unit secured in opening by others using Andersen® 302 stainless steel sheet metal jamb clips and stainless steel screws. Bend the jamb clip to secure unit fit in opening, Installation flange can be cut as required to accommodate the jamb clip.

**APPLICATION:**

- First secure jamb clip to back side of window unit jamb(s)
- Apply 1' from corners of head jamb, sill and side jambs
- Space jamb clips evenly (maximum distance apart 32" on center)
- 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
Scale 1-1/2" = 1'-0" (1:8)

Suggested Product Applications—Flexiframe®, Arch, Springline™, Enhancement Windows

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

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