Measuring Instructions

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**INFINITY MEASURING INSTRUCTIONS**
**INSERT DOUBLE HUNG AND GLIDER**

**Before You Begin**

- These measuring instructions cover the following product types:
  - Infinity Insert Double Hung (NINDH), Infinity Insert Glider (NINGL)
- Be sure to inspect the exterior around the existing window unit for rot or deterioration. If there is damage to the exterior, a full frame unit installation may be a better choice.
- The Infinity Insert will be made with an 8" sill bevel. For existing sill angles greater than 8°, the interior edge of the Infinity Insert sill will rest on the existing sill. See illustration 3a.

**You will need to supply:**

- Tape measure
- Angle finder

NOTE: Numbers listed in parentheses () are metric equivalents in millimeters rounded to the nearest whole number.

**Required Measurements**

**NOTE:** To calculate exact frame size, refer to the sizing/measurement conversions in the Architectural Information section of the Infinity Support Guide.

1. For **Inside Opening Width (A)** measure inside of frame at three locations: the sill, the center of jambs and the head jamb. Record the **narrowest** measurement. See illustration 1.
   
   **NOTE:** Do not measure width from parting stops, blind stops, hardware, or weatherstrip.

2. Measure the **Inside Opening Height (B)** from the top of the sill to the bottom of the head jamb as shown in illustration 2.

3. Measure the **Sill Angle (C)**. Record the sill angle to the nearest degree. See illustration 2.

**Recommended Measurements**

4. Measure the width of the blind stops from the inside opening to the edge of the blind stop (D). See illustration 1. If width exceeds 1/2" (13), modification to the blind stop or an exterior installation may be necessary.

5. Measure jamb pocket depth (E). See illustration 1. If depth is less than 3 1/4" (83) or greater than 3 1/2" (89) modification to the pocket may be necessary. (Exterior installation is recommended for pocket depths less than 3 1/4").

**EXISTING WINDOW FRAME**

**3a – 14 Degree Existing Sill**

**3b – Flat Existing Sill**

1. Measure the **Inside Opening Width (A)** measure inside of frame at three locations: the sill, the center of jambs and the head jamb. Record the **narrowest** measurement. See illustration 1.

**NOTE:** Do not measure width from parting stops, blind stops, hardware, or weatherstrip.

2. Measure the **Inside Opening Height (B)** from the top of the sill to the bottom of the head jamb as shown in illustration 2.

3. Measure the **Sill Angle (C)**. Record the sill angle to the nearest degree. See illustration 2.

- For existing sill angles less than 8°, the exterior nose of the Infinity Insert sill will rest on the existing sill. See illustration 3b.
- It may be necessary to cover the resulting gap (F) with trim. See illustration 3b.
**INFINITY MEASURING INSTRUCTIONS**
**INSERT DOUBLE HUNG AND GLIDER**

**PROJECT**: ________________________________
**MEASURED BY**: ________________________________
**DATE**: ________________________________

Follow the steps on the previous page to fill in this worksheet.

Measurement A  **Inside Opening Width** (Narrowest Width)
Measurement B  **Inside Opening Height**
Measurement C  **Sill Angle**
Measurement D  **Blind stop width**
Measurement E  **Jamb pocket depth**

NOTE: Insert units will be manufactured 3/8” (10) smaller in width and 1/4” (6) smaller in height than the inside opening measurement specified.

<table>
<thead>
<tr>
<th>Window#/Location</th>
<th>Product Description</th>
<th>Required Measurement</th>
<th>Recommended Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
</tbody>
</table>

Site Map

* If blind stop width exceeds 1/2” (13), modifications may be necessary.
** If less than 3 1/4” (83) or greater than 3 1/2” (89), modifications to the pocket may be necessary.
INFINITY MEASURING INSTRUCTIONS
INSERT CASEMENT AND AWNING

Before You Begin

- These measuring instructions cover the following product types:
  Infinity Insert Casement (NINCA), Infinity Insert Awning (NINAWN)
- Be sure to inspect the exterior around the existing window unit for rot or deterioration. If there is damage to the exterior, a full frame unit installation may be a better choice.

You will need to supply:
Tape measure

NOTE: Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number.

REQUIRED MEASUREMENTS

NOTE: To calculate exact frame size, refer to the sizing/measurement conversions in the individual product chapter.

1. For **Inside Opening Width (A)** measure inside of frame at three locations: the sill, the center of jambs and the head jamb. Record the narrowest measurement. See illustration 1.
   
   **NOTE:** Do not measure width from parting stops, blind stops, hardware, or weatherstrip.

2. Measure the **Inside Opening Height (B)** from the top of the sill to the bottom of the head jamb as shown in illustration 2.

3. Measure the **Stool Height (C)** and record. See illustration 2. If the stool height is over 1 5/16" modification to the existing sill may be necessary. See illustration 3.

Recommended Measurements

4. Measure the width of the blind stops from the inside opening to the edge of the blind stop (D). See illustration 1. If width exceeds 1/2” (13), modification to the blind stop or an exterior installation may be necessary.

5. Measure jamb pocket depth (E). See illustration 1. If depth is less than 3 1/4” (83) or greater than 3 1/2” (89) modification to the pocket may be necessary. (Exterior installation is recommended for pocket depths less than 3 1/4").
**INFINITY MEASURING INSTRUCTIONS**
**INSERT CASEMENT AND AWNING**

PROJECT ____________________________
MEASURED BY: _______________________
DATE: ______________________________

Follow the steps on the previous page to fill in this worksheet.

Measurement A  **Inside Opening Width** (Narrowest Width)
Measurement B  **Inside Opening Height**
Measurement C  **Stool Height**
Measurement D  **Blind stop width**
Measurement E  **Jamb pocket depth**

NOTE: Insert units will be manufactured 3/8” (10) smaller in width and 1/4” (6) smaller in height than the inside opening measurement specified.

<table>
<thead>
<tr>
<th>Required Measurement</th>
<th>Recommended Measurement</th>
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</thead>
<tbody>
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<td><strong>Window#/Location</strong></td>
<td><strong>Product Description</strong></td>
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<tr>
<td>A</td>
<td>B</td>
</tr>
</tbody>
</table>

**SITE MAP**

* If blind stop width exceeds 1/2” (13), modifications may be necessary.
** If less than 3 1/4” (83) or greater than 3 1/2” (89), modifications to the pocket may be necessary.
INFINITY MEASURING INSTRUCTIONS
POLYGON AND ROUND TOP DIRECT GLAZE – INSIDE OPENING

PROJECT ____________________________
MEASURED BY: _______________________
DATE: _______________________________

Follow the steps on the previous page to fill in this worksheet.
Measurement A  **Inside Opening Width** (Narrowest Width)
Measurement B  **Inside Opening Height**
Measurement D  Blind stop width
Measurement E  Jamb pocket depth

NOTE: Insert units will be manufactured 3/8” (10) smaller in width and 1/4” (6) smaller in height than the inside opening measurement specified.

<table>
<thead>
<tr>
<th>Window Location</th>
<th>Product Description</th>
<th>Required Measurement</th>
<th>Recommended Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td>B</td>
</tr>
</tbody>
</table>

Site Map

EXISTING WINDOW FRAME
Before You Begin

- These measuring instructions cover the following Infinity product types: Double Hung, Glider, Casement and Awning.

You will need to supply:

- Tape measure
- Hammer
- Pry bar
- Utility knife
- Sheetrock saw

NOTE: Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number.

1. Remove interior trim and if necessary, trim back a section of the interior wall covering back to the Rough Opening of the existing window unit as shown in illustration 1.

NOTE: The above Infinity construction drawing illustrates the flat sill and need to trim back the wall covering to the rough opening. The construction drawing illustrates a suggested method to finish off the Infinity unit using a field applied Infinity Jamb Extension Adaptor.

NOTE: BMC is not available for bows, bays or doors.

Required Measurements

2. To determine the Rough Opening Width measure the interior dimension as illustrated.

3. Measure the Rough Opening Height from the interior of the rough opening header to the bottom of the opening as illustrated.

NOTE: Check the rough opening for any water damage that may need to be repaired prior to installing the Infinity unit.
INFINITY MEASURING INSTRUCTIONS
FULL FRAME

PROJECT: _____________________________
MEASURED BY: ___________________________
DATE: _____________________________

Follow the steps on the previous page to fill in this worksheet.
* The unit will be fabricated 1” smaller than the RO Width
** The Unit will be fabricated 1/2” smaller than the RO Height

IMPORTANT: Infinity units with BMC for Masonry Openings: Adjust the RO width and height measurements to accommodate the BMC.
Frame OM to BMC OM; width + 2 3/4”; height + 1 15/16”.

<table>
<thead>
<tr>
<th>Window Location</th>
<th>Product Description</th>
<th>*(Required) RO Width</th>
<th>*(Required) RO Height</th>
<th>(Required) Bow/Bay Jamb Depth</th>
<th>(Optional) Bow/Bay Projection</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Site Map

* If blind stop width exceeds 1/2” (13), modifications may be necessary.
** If less than 3 1/4” (83) or greater than 3 1/2” (89), modifications to the pocket may be necessary.
Before You Begin

- These measuring instructions cover the following product types:
  - Insert or Full Frame Infinity Polygon
- Be sure to inspect the exterior around the existing window unit for rot or deterioration. Repair any damage to the opening before installation of the unit. For insert units if there is damage to the existing window frame, a full frame unit installation may be a better choice.

On all units, we maintain the clearance or conversion dimension perpendicular to the frame. For this reason, standard rectangular conversions cannot be used for any unit involving angles. These must be calculated on an individual basis.

If any dimension is critical (such as frame measurement to match lower unit) then order should be placed with that dimension. The order will be converted to the accurate rough opening. When calculating Angular shapes, contact your Infinity Representative.

Inside opening clearance is 3/8” (10) on width and 1/4” (6) perpendicular to frame.
Rough opening clearance is 1” (25) on width and 1/2” (13) perpendicular to frame.
Masonry opening clearance is 1/2” (13) on width and 1/4” (6) on height perpendicular to frame.
**INFINITY MEASURING INSTRUCTIONS**

**DIRECT GLAZE POLYGON**

**PROJECT**: ____________________________

**MEASURED BY**: ____________________________

**DATE**: ____________________________

Follow the steps on the previous page to fill in this worksheet.

* The unit will be fabricated 1” smaller than the RO Width

** The Unit will be fabricated 1/2” smaller than the RO Height

**IMPORTANT**: Infinity units with BMC for Masonry Openings: Adjust the RO width and height measurements to accommodate the BMC. Frame OM to BMC OM; width + 2 3/4”; height + 1 15/16”.

<table>
<thead>
<tr>
<th>Window Location</th>
<th>Product Description</th>
<th>*(Required) RO Width</th>
<th>*(Required) RO Height</th>
<th>*(Required) Bow/Bay Jamb Depth</th>
<th>*(Optional) Bow/Bay Projection</th>
</tr>
</thead>
<tbody>
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<td></td>
</tr>
</tbody>
</table>

**Site Map**

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* If blind stop width exceeds 1/2” (13), modifications may be necessary.

** If less than 3 1/4” (83) or greater than 3 1/2” (89), modifications to the pocket may be necessary.
INFINITY MEASURING INSTRUCTIONS
DIRECT GLAZE ROUND TOP

Before You Begin

- These measuring instructions cover the following product types:
- Insert or Full Frame Infinity Round Top

- Be sure to inspect the exterior around the existing window unit for rot or deterioration. Repair any damage to the opening before installation of the unit. For insert units if there is damage to the existing window frame, a full frame unit installation may be a better choice.

### Round Top – RO

<table>
<thead>
<tr>
<th>Rough Opening</th>
<th>Inside Opening</th>
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</thead>
<tbody>
<tr>
<td>Frame Size</td>
<td>Frame Size</td>
</tr>
<tr>
<td>4/2” (13)</td>
<td>3/16” (6)</td>
</tr>
</tbody>
</table>

### Round Top – IO

<table>
<thead>
<tr>
<th>Rough Opening</th>
<th>Inside Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Size</td>
<td>Frame Size</td>
</tr>
<tr>
<td>1/2” (13)</td>
<td>1/4” (6)</td>
</tr>
</tbody>
</table>

### RT 1

- Inside opening clearance is 3/8” (10) on width and 1/4” (6) perpendicular to frame.
- Rough opening clearance is 1” (25) on width and 1/2” (13) perpendicular to frame.
- Masonry opening clearance is 1/2” (13) on width and 1/4” (6) on height perpendicular to frame.

How to Specify Dimensions:
When ordering a round top window, provide a sketch of the unit as viewed from the exterior, also include key rough opening dimensions.

Example:
To order a window for a round top opening, provide measurement A.
INFINITY MEASURING INSTRUCTIONS
DIRECT GLAZE ROUND TOP
PROJECT______________________________

MEASURED BY:__________________________
DATE:______________________________

Follow the steps on the previous page to fill in this worksheet.
* The unit will be fabricated 1" smaller than the RO Width
** The Unit will be fabricated 1/2" smaller than the RO Height

IMPORTANT: Infinity units with BMC for Masonry Openings: Adjust the RO width and height measurements to accommodate the BMC. Frame OM to BMC OM; width + 2 3/4"; height + 1 15/16".

<table>
<thead>
<tr>
<th>Window Location</th>
<th>Product Description</th>
<th>*(Required)</th>
<th>**(Required)</th>
<th>(Required)</th>
<th>(Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RO Width</td>
<td>RO Height</td>
<td>Bow/Bay</td>
<td>Bow/Bay</td>
</tr>
<tr>
<td>Remove</td>
<td></td>
<td></td>
<td></td>
<td>Jamb Depth</td>
<td>Projection</td>
</tr>
</tbody>
</table>

EXISTING WINDOW FRAME

* If blind stop width exceeds 1/2" (13), modifications may be necessary.
** If less than 3 1/4" (83) or greater than 3 1/2" (89), modifications to the pocket may be necessary.
Before You Begin

• This measuring instruction covers the following Infinity product types: Double Hung Bay, Casement Bow and Bay.

You will need to supply:

- Tape measure
- Hammer
- Pry Bar
- Utility Knife
- Sheetrock saw

NOTE: Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number.

1. Remove interior trim and if necessary, trim a section of the interior wall covering to the Rough Opening of the existing window unit as shown in illustration 1.

Required Measurements

2. Measure the Rough Opening Width from jack stud to jack stud. See illustration 1.
3. Measure the Rough Opening Height from the interior of the rough opening header to the sill plate. See illustration 1.
4. Measure the Jamb depth from interior wall to the exterior sheathing. See illustration 1.

NOTE: Check the rough opening for any water damage that may need to be repaired prior to installing the Infinity unit.
INFINITY MEASURING INSTRUCTIONS
BOW AND BAY

PROJECT: __________________________
MEASUREMENT: ____________________
DATE: ____________________________

Follow the steps on the previous page to fill in this worksheet.

* The unit will be fabricated 1" smaller than the RO Width
** The unit will be fabricated 1/2" smaller than the RO Height

INFINITY MEASURING INSTRUCTIONS
BOW AND BAY
PROJECT
MEASURED BY: ____________________
DATE: ____________________________

EXISTING WINDOW ASSEMBLY

IMPORTANT: For Masonry openings the RO Height must be reduced by 1 1/2 inches to accommodate the bow or bay insulated seat board. See illustration 2. Projection and jamb depth can not exceed 29 inches.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>RO Width*</th>
<th>RO Height**</th>
<th>Bay Assembly Ratio 1:2:1 or 1:1:1</th>
<th>Bow Unit 4, 5, or 6 wide</th>
<th>Jamb Depth</th>
</tr>
</thead>
</table>

| NINDH BAY |
A = Projection – 2 15/16" (75) + Jamb Depth  
B = Projection + 1 3/32" (28) |

| NINCA BAY |
A = Projection – 2 7/16" (62) + Jamb Depth  
B = Projection + 31/32" (24) |

Site Drawing

2013–09–30

Measure–14

19915295

Infinity Measuring Instructions
Before You Begin

- These measuring instructions cover the following Infinity product type: Special Size Infinity Sliding Patio Door

You will need to supply:

Tape measure  Hammer
Pry bar  Utility knife
Sheetrock saw

NOTE: Numbers listed in parentheses ( ) are metric equivalents in millimeters rounded to the nearest whole number.

1. Remove interior trim and if necessary, trim back a section of the interior wall covering back to the rough opening of the existing window unit. See illustration 1.

NOTE: The Infinity construction drawing does not include a recommended RO sill panning system. See illustration 2. The construction drawing illustrates a suggested method to finish off the Infinity unit using a field applied exterior casing. Depending upon the depth of the wall it may be necessary to apply an interior jamb extension as well.

Required Measurements

2. To determine the Rough Opening Width measure the interior dimension as illustrated.

3. Measure the Rough Opening Height from the interior of the rough opening header to the bottom of the opening as illustrated.
**Infinity Measuring Instructions**

**Sliding Door Project**

**Measured By:**

**Date:**

Follow the steps on the previous page to fill in this worksheet.

Special sized Sliding Patio Doors (NSPD) will be fabricated as follows:

1” (25) smaller than the RO Width* and 1/2” (13) smaller than the RO Height**

Door Jamb Depth for standard and special sized doors is 4 9/16” (116)

<table>
<thead>
<tr>
<th>Door Location</th>
<th>Product Description</th>
<th>*(Required) RO Width</th>
<th>**(Required) RO Height</th>
<th>*(Optional) Jamb Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>65H 60&quot; x 80&quot;</td>
<td></td>
<td>72' x 80’</td>
<td>96’ x 80’</td>
<td>107 1/2' x 80’</td>
</tr>
<tr>
<td>68H 60&quot; x 82 1/2&quot;</td>
<td></td>
<td>72' x 82 1/2’</td>
<td>96’ x 82 1/2’</td>
<td>107 1/2’ x 82 1/2’</td>
</tr>
<tr>
<td>80H 60&quot; x 96&quot;</td>
<td></td>
<td>72’ x 96’</td>
<td>96’ x 96’</td>
<td>107 1/2’ x 96’</td>
</tr>
</tbody>
</table>

**Site Map**
How to Specify Dimensions:
When ordering a trapezoid, triangle, or rectangle window, provide a sketch of the unit as viewed from the exterior, also include key rough opening dimensions.

Example:
To order a window of a trapezoid opening, provide the measurements of A, B, and C as indicated. For other shapes, give the dimensions shown.
Rough Opening Conversion Information

* These dimensions will vary according to pitch

Inside Opening Conversion Information

* These dimensions will vary according to pitch

On all units, we maintain our clearance or conversion dimension perpendicular to the frame (see sketch). For this reason standard rectangular conversions cannot be used for any unit involving a radius or angles. These must be calculated on an individual basis. If any dimension is critical (such as frame O.S.M. to match lower unit) then the order should be placed with that dimension and Infinity will calculate the accurate dimensions needed.
### ANGLE TO PITCH CHART

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>PITCH</th>
<th>ANGLE</th>
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### PITCH TO ANGLE CHART

1/12 PITCH = 4° 46’
2/12 PITCH = 9° 28’
3/12 PITCH = 14° 02’
4/12 PITCH = 18° 26’
5/12 PITCH = 22° 37’
6/12 PITCH = 26° 34’
7/12 PITCH = 30° 15’
8/12 PITCH = 33° 41’
9/12 PITCH = 36° 52’
10/12 PITCH = 39° 48’
11/12 PITCH = 42° 31’
12/12 PITCH = 45°

13/12 PITCH = 47° 17’
14/12 PITCH = 49° 24’
15/12 PITCH = 51° 20’
16/12 PITCH = 53° 22’
17/12 PITCH = 54° 47’
18/12 PITCH = 56° 19’
19/12 PITCH = 57° 43’
20/12 PITCH = 59° 02’
21/12 PITCH = 60° 15’
22/12 PITCH = 60° 23’
23/12 PITCH = 62° 27’
24/12 PITCH = 63° 26’
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**INFINITY MEASURING INSTRUCTIONS**

**FRACTION TO DECIMAL CONVERSION**