# Infinity Direct Glaze Round Top

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Unit Features

Infinity Direct Glaze Round Tops: NDGRT / NINDGRT

Glass Reinforced ABS Composite Frame:
- Frame thickness: 1 29/32" (48)
- Frame depth: 2 5/32" (55) from nailing fin, 3 1/4" (83) full depth
- Exterior colors: Stone White, Sierra, Cashmere, Pebble Gray, Bahama Brown, Bronze, Ebony
- Interior colors: Stone White, Sierra, EverWood™

Glass:
- Glazing seal: silicone bedding on exterior and foam glazing tape on the interior
- Standard glass is insulating Low E2 with Argon or air
- Optional glazing available: Low E1 with Argon or air, Low E3 with Argon or air, Low E3/ERS with Argon or air, tempered, obscure
- Decorative glass options include Glue Chip, Rain, Reed, Narrow Reed, or Frost
- Decorative glass is not available with Low E1, Low E3/ERS, or STC/OITC
- Rain, Reed and Narrow Reed not available with SDL
- SDL available on Frost, annealed or tempered
- SDL available on Glue Chip, tempered glass required
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations
- Argon gas is not available for elevations that require capillary tubes

Simulated Divided Lites (SDL):
- 7/8" or 1 1/8" wide with internal spacer bar
- Exterior bar: Ultrex®, finish to match exterior color
- Interior bar: ABS (Acrylonitrile Butadiene Styrene) for Stone White and Sierra option or CPVC (Cellular Polyvinyl Chloride) for EverWood™ option
- Pattern: Open hub sunburst, equal rectangular lites

Gilles-Between-the-Glass (GBG):
- 23/32" (18) or 1" (25) contoured aluminum bar
- Exterior: color matched to unit exterior
- The exterior GBG color is designed to best match the unit exterior color when used with Low E glass. The use of different types of glazing options may alter the exterior GBG color appearance.
- Interior color: White, Satin Taupe, Sierra, Bronze
- Pattern: Open hub sunburst, closed hub sunburst, equal rectangular lites
  - RT27 Pattern: Equal rectangular lites only

Divided Lite Limitations:
- RT1 and RT5 open hub sunburst lite pattern has a maximum number of 6 spokes
- RT7, RT8, RT9, RT10, RT15, RT16, RT17, RT18, RT19, RT20, RT23, RT24 open hub sunburst lite pattern has a maximum number of 2 spokes
- RT27 open hub sunburst lite pattern has a maximum number of 19 spokes
- All open hub sunburst lite patterns must have symmetrical lite patterns
- Dual open hub sunburst available on RT1, RT7, RT8, RT9, RT10 and RT27
- Open hub sunburst over equal lite patterns is available on RT2
  - Concentric open hub pattern that aligns with the equal cut below
  - Open hub sunburst patterns have a maximum of 6 spokes and symmetrical lite pattern
Available RT Shapes:

- RT1
- RT2
- RT5
- RT6
- RT7
- RT8
- RT9
- RT10
- RT15
- RT16
- RT17
- RT18
- RT19
- RT20
- RT21
- RT22
- RT23
- RT24
- RT25
- RT26
- RT27
Lite Options

- **Insulating Glass 7/8" SDL w/ spacer bar**
- **Insulating Glass 23/32" GBG**
- **Insulating Glass 1 1/8" SDL w/ spacer bar**
- **Insulating Glass 1" GBG**
### Divided Lite Examples

#### RT1 Shape

- **Equal Lite**
  - 6 Rect Lites
  - SDL, GBG 23/32", GBG 1"

- **Solid Hub Sunburst**
  - 4 Radius Lites
  - w/Solid Hub
  - GBG 23/32", GBG 1"

- **Open Hub Sunburst**
  - 4 Radius Lites
  - w/Open Hub
  - SDL, GBG 23/32", GBG 1"

- **Dual Open Hub Sunburst**
  - 9 Radius Lites
  - w/Open Hub
  - SDL

#### RT2 Shape

- **Equal Lite**
  - 12 Rect Lites
  - SDL, GBG 23/32", GBG 1"

- **Open Hub Sunburst Over Equal Lite**
  - 9 Rect Lites
  - w/5 Radius Lites
  - SDL, GBG 23/32", GBG 1"

- **Dual Open Hub Sunburst Over Equal Lite**
  - 15 Rect Lites
  - w/9 Radius Lites
  - SDL

#### RT5 Shape

- **Equal Lite**
  - 6 Rect Lites
  - SDL, GBG 23/32", GBG 1"

- **Open Hub Sunburst**
  - 5 Radius Lites
  - w/Open Hub
  - SDL, GBG 23/32", GBG 1"
Infinity Direct Glaze Round Top

Divided Lite Examples

**RT6 Shape**

12 Rect Lites
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

**RT7/RT8 Shape**

4 Rect Lites
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

2 Radius Lites
w/Solid Hub
GBG 23/32", GBG 1"

3 Radius Lites
w/Open Hub
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

5 Radius Lites
w/Open Hub
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

**RT9/RT10 Shape**

9 Rect Lites
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

4 Radius Lites w/Open Hub
SDL 7/8", SDL 1 1/8"
GBG 23/32", GBG 1"

7 Radius Lites w/Open Hub
SDL 7/8", SDL 1 1/8"
Divided Lite Examples

RT15/RT16 Shape

Equal Lite
- 6 Rect Lites
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"

Open Hub Sunburst
- 4 Radius Lites w/Open Hub
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"

RT17/RT18 Shape

Equal Lite
- 6 Rect Lites
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"

Open Hub Sunburst
- 4 Radius Lites w/Open Hub
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"

RT19/RT20 Shape

Equal Lite
- 8 Rect Lites
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"

Open Hub Sunburst
- 4 Radius Lites w/Open Hub
- SDL 7/8", SDL 1 1/8"
- GBG 23/32", GBG 1"
Divided Lite Examples

**RT21/RT22 Shape**

- **Equal Lite**
  - 9 Rect Lites
  - SDL 7/8", SDL 1 1/8"
  - GBG 23/32", GBG 1"

**RT23/RT24 Shape**

- **Equal Lite**
  - 9 Rect Lites
  - SDL 7/8", SDL 1 1/8"
  - GBG 23/32", GBG 1"

- **Open Hub Sunburst**
  - 7 Radius Lites w/Open Hub
  - SDL 7/8", SDL 1 1/8"
  - GBG 23/32", GBG 1"

**RT25/RT26 Shape**

- **Equal Lite**
  - 9 Rect Lites
  - SDL 7/8", SDL 1 1/8"
  - GBG 23/32", GBG 1"

- **Open Hub Sunburst**
  - 13 Radius Lites w/Open Hub
  - SDL 7/8", SDL 1 1/8"
### Minimum and Maximum Guidelines - Direct Glaze Round Tops

#### Inside Opening

<table>
<thead>
<tr>
<th>Round Top Shape</th>
<th>Min Width</th>
<th>Min Height</th>
<th>Min Springline</th>
<th>Max Width</th>
<th>Max Height</th>
<th>Max Springline</th>
<th>Max Glass</th>
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<tbody>
<tr>
<td>RT1</td>
<td>28 3/8</td>
<td>14 3/16</td>
<td>N/A</td>
<td>96 3/8</td>
<td>48 3/16</td>
<td>82</td>
<td>N/A</td>
</tr>
<tr>
<td>RT2</td>
<td>28 3/8</td>
<td>21 3/16</td>
<td>7 (178)</td>
<td>96 3/8</td>
<td>96 3/16</td>
<td>95</td>
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<tr>
<td>RT5</td>
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<td>11 11/16</td>
<td>7 (178)</td>
<td>96 3/8</td>
<td>58 11/64</td>
<td>82</td>
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<td>RT6</td>
<td>28 3/8</td>
<td>8 3/16</td>
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<td>96 3/8</td>
<td>58 11/64</td>
<td>82</td>
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</tr>
<tr>
<td>RT7 and RT8</td>
<td>17 7/8</td>
<td>17 11/16</td>
<td>N/A</td>
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<td>96 3/16</td>
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<tr>
<td>RT9 and RT10</td>
<td>17 7/8</td>
<td>24 11/16</td>
<td>7 (178)</td>
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<td>96 3/16</td>
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<td>96 3/16</td>
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<td>82</td>
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<tr>
<td>RT19 and RT20</td>
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<td>8 3/16</td>
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<td>96 3/16</td>
<td>82</td>
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</tr>
<tr>
<td>RT21 and RT22</td>
<td>17 7/8</td>
<td>8 3/16</td>
<td>7 (178)</td>
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<td>96 3/16</td>
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<tr>
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<td>24 13/16</td>
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<td>96 3/16</td>
<td>82</td>
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</tr>
<tr>
<td>RT25 and RT26</td>
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<td>8 3/16</td>
<td>7 (178)</td>
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#### Glass Limits

<table>
<thead>
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<th>Max Springline</th>
<th>Max Glass</th>
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<tbody>
<tr>
<td>RT1</td>
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<td>N/A</td>
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</tr>
<tr>
<td>RT2</td>
<td>N/A</td>
<td>N/A</td>
<td>30 (3)</td>
</tr>
<tr>
<td>RT5</td>
<td>N/A</td>
<td>N/A</td>
<td>43 51/64</td>
</tr>
<tr>
<td>RT6</td>
<td>N/A</td>
<td>N/A</td>
<td>48 13/32</td>
</tr>
<tr>
<td>RT7 and RT8</td>
<td>7 (178)</td>
<td>N/A</td>
<td>48 13/32</td>
</tr>
<tr>
<td>RT9 and RT10</td>
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<td>48 13/32</td>
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<td>RT23 and RT24</td>
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<tr>
<td>RT25 and RT26</td>
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<td>48 13/32</td>
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<td>RT27</td>
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<td>28 3/8</td>
<td>37 13/64</td>
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### Minimum and Maximum Guidelines - Direct Glaze Round Tops

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<thead>
<tr>
<th>Round Top Shape</th>
<th>Min Width</th>
<th>Min Height</th>
<th>Min Springline</th>
<th>Max Width</th>
<th>Max Height</th>
<th>Max Springline</th>
<th>Max Glass</th>
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</thead>
<tbody>
<tr>
<td>RT1</td>
<td>28 (711)</td>
<td>14 (356)</td>
<td>N/A</td>
<td>96 (2438)</td>
<td>96 (2438)</td>
<td>82</td>
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</tr>
<tr>
<td>RT2</td>
<td>28 (711)</td>
<td>21 (533)</td>
<td>7 (178)</td>
<td>96 (2438)</td>
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<tr>
<td>RT5</td>
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<td>96 (2438)</td>
<td>82</td>
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<td>8 (203)</td>
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<td>17 1/2 (445)</td>
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<td>85 7/8</td>
<td>82</td>
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<td>RT9 and RT10</td>
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<td>RT15 and RT16</td>
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<td>8 (203)</td>
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<td>85 3/4</td>
<td>85 3/4</td>
<td>82</td>
<td>N/A</td>
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<tr>
<td>RT21 and RT22</td>
<td>17 1/2 (445)</td>
<td>8 (203)</td>
<td>N/A</td>
<td>85 3/4</td>
<td>85 3/4</td>
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<tr>
<td>RT23 and RT24</td>
<td>17 1/2 (445)</td>
<td>24 5/8 (625)</td>
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<td>85 3/4</td>
<td>85 3/4</td>
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<tr>
<td>RT25 and RT26</td>
<td>17 1/2 (445)</td>
<td>8 (203)</td>
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<td>85 3/4</td>
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<td>85 (2159)</td>
<td>82</td>
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</table>

NOTE: RT5 and RT15/16 - Actual Inside Opening (IO) Width and Frame Size Width values will vary depending on the ratio of the frame width to height, please contact your Infinity representative.

NOTE: RT23/24 - Actual Head Height values will vary depending on the ratio of the head height and frame width.

NOTE: RT16/17 - Actual IO Height and Frame Size Height will vary depending on ratio of the frame width to height.

For Obscure glass, maximum short frame width/height is 73 1/4" and maximum long frame width/height is 85 1/4".

For Glue Chip, Frost, and Rain, maximum short frame width/height is 61 1/4 and maximum long frame width/height is 85 1/4".

For Reed and Narrow Reed, vertical pattern orientation maximum frame width size is 61 1/4", maximum frame height size is 85 1/4".

For Reed and Narrow Reed, horizontal pattern orientation maximum frame width size is 85 1/4", maximum frame height size is 61 1/4".
### Certified Sizes and Ratings

<table>
<thead>
<tr>
<th>Product</th>
<th>Air Tested to PSF</th>
<th>Water Tested to psf</th>
<th>Design Pressure (DP)</th>
<th>Certification Rating</th>
<th>Max Overall Width</th>
<th>Max Overall Height</th>
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<tbody>
<tr>
<td>Infinity Round Top</td>
<td>1.57</td>
<td>9.75</td>
<td>50</td>
<td>CW-PG50-FW</td>
<td>83 (2108)</td>
<td>83 1/2 (2121)</td>
</tr>
<tr>
<td>Insert</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Infinity Round Top</td>
<td>1.57</td>
<td>9.75</td>
<td>50</td>
<td>CW-PG50-FW</td>
<td>83 (2108)</td>
<td>83 1/2 (2121)</td>
</tr>
</tbody>
</table>
STC/OITC Glass Values

STC/OITC ratings are shown in the chart below. Infinity’s STC/OITC values are provided by third party ASTM testing and reports. The STC/OITC Upgrade option incorporates variable glass thickness or laminate (L) to increase STC/OITC performance and improve sound abatement.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Exterior Glazing</th>
<th>Airspace</th>
<th>Interior Glazing</th>
<th>STC</th>
<th>OITC</th>
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</thead>
<tbody>
<tr>
<td>Direct Glaze Round Top</td>
<td>5/32” (3.9)</td>
<td>11/16” (17.5)</td>
<td>5/32” (3.9)</td>
<td>30</td>
<td>24</td>
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<tr>
<td></td>
<td>5/32” (3.9)</td>
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<td>3/16” (4.7)</td>
<td>35</td>
<td>29</td>
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<tr>
<td></td>
<td>5/32” (3.9)</td>
<td>5/8” (16.0)</td>
<td>1/4” (6.0L)</td>
<td>35</td>
<td>28</td>
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</tbody>
</table>
Mulling Guidelines for Round Top Assemblies

Factory Mulled Direct Glaze Assemblies:
- Round Top width must equal width of assembly below.
- MAXIMUM allowable configuration is 3W2H
  - MAXIMUM ROUGH OPENING not to exceed 97" (2464) x 96" (2438)
  - MAXIMUM INSIDE OPENING not to exceed 96 3/8" (2448) x 95 11/16" (2430)

NOTE: Field mulling beyond the above limitations is not recommended.

Rough Opening Assemblies:
- WIDTH
  - Frame Width = Single unit Rough Opening width MINUS 1"
  - Total Rough Opening Width = ADD all frame widths PLUS 1"
- HEIGHT
  - Frame Height = Single unit Rough Opening height MINUS 1/2"
  - Total Rough Opening Height = ADD all frame heights PLUS 1/2"

Inside Opening Assemblies:
- WIDTH:
  - Frame Width = Single unit Rough Opening width MINUS 3/8"
  - Total Rough Opening Width = ADD all frame widths PLUS 3/8"
- HEIGHT:
  - Frame Height = Single unit Rough Opening height MINUS 3/16"
  - Non-Round Top Frame Height = Inside Opening MINUS 1/4"
  - Total Rough Opening Height = ADD all frame heights PLUS 3/16"
1/2" Mull Reinforcement Guidelines - Round Top

Factory Mulled Round Top Assemblies:

- Assemblies up to 4 units wide by 1 unit high
  - MAXIMUM ROUGH OPENING not to exceed 113" (2870) x 96 1/2" (2451)
- Assemblies up to 1 unit wide by 2 units high
  - MAXIMUM ROUGH OPENING not to exceed 73" (1854) x 96 1/2" (2451)
- Assemblies up to 2 units wide by 2 units high
  - MAXIMUM ROUGH OPENING not to exceed 97 1/2" (2477) x 96 1/2" (2451)
  - MAXIMUM ROUGH OPENING not to exceed 113" (2870) x 86 1/2" (2197)

NOTE: Field mulling beyond the above limitations is not recommended.

Rough Opening Assemblies:

- WIDTH:
  - Frame Width = Single unit Rough Opening width MINUS 1"
  - Total Rough Opening Width = ADD all frame widths PLUS 1/2" (for each Vertical Mull Reinforcement) PLUS 1"
- HEIGHT:
  - Frame Height = Single unit Rough Opening height MINUS 1/2"
  - Total Rough Opening Height = ADD all frame heights PLUS 1/2" (for each Horizontal Mull Reinforcement) PLUS 1/2"
MAXIMUM ROUGH OPENING not to exceed 144" (3658) x 72 1/2" (1842)
MAXIMUM INSIDE OPENING not to exceed 143 3/8" (3642) x 72 3/16" (1834)

NOTE: Factory mulled Palladian mulls 3 units wide by 1 unit high. Assemblies are made up of 3 units. The flanker units must be of the same product and unit type and must be equal in height to the springline of the Round Top.

NOTE: Field mulling beyond the above limitations is not recommended.

Rough Opening for Round Top Palladian Assemblies:
- WIDTH:
  - Frame Width = Single unit Rough Opening width MINUS 1"
  - Total Rough Opening Width = ADD all frame widths PLUS 1"
- HEIGHT:
  - Frame Height = Round Top Unit Rough Opening Height MINUS 1/2"

Inside Opening for Round Top Palladian Assemblies:
- WIDTH:
  - Frame Width = Single unit Rough Opening width MINUS 3/8"
  - Total Rough Opening Width = ADD all frame widths PLUS 3/8"
- HEIGHT:
  - Frame Height = Round Top Unit Rough Opening Height MINUS 3/16"
## Measurement Conversions

<table>
<thead>
<tr>
<th>Unit Measurements</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>To</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td><strong>Rough Opening</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masonry Opening</td>
<td>-1/2</td>
<td>(13)</td>
</tr>
<tr>
<td>OM of Frame</td>
<td>+ 1</td>
<td>(25)</td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 4 25/32</td>
<td>(122)</td>
</tr>
<tr>
<td><strong>Frame</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 3 25/32</td>
<td>(96)</td>
</tr>
<tr>
<td><strong>Inside Opening</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 4 5/32</td>
<td>(106)</td>
</tr>
<tr>
<td>Inside Opening</td>
<td>+ 3/8</td>
<td>(10)</td>
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<tr>
<td><strong>Glass</strong></td>
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<td></td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 1 3/8</td>
<td>(35)</td>
</tr>
</tbody>
</table>
Section Details: Full Frame Direct Glaze Round Tops

Scale: 3" = 1' 0"

Head Jamb and Sill

Jambs
Section Details: Casing Options

Scale: 3" = 1' 0"

BMC With Sub Sill

Brick Mould Casing
Section Details: Insert Direct Glaze Round Tops

Scale: 3" = 1' 0"

Head Jamb and Sill

Frame Size

Daylight Opening

Head Jamb and Sill

Frame Size

Daylight Opening

Jambs
Section Details: Mullions

Scale: 3" = 1' 0"

Horizontal Mullion
NDGRT/NPDG
NINDGRT/NINPDG

Horizontal Mullion
NDGRT/NCA
NDGRT/NCAP
NDGRT/NAWN

Horizontal Mullion
NDGRT/NINCA
NDGRT/NINAW/NDGRT/NINCP
NDGRT/NINAP

Horizontal Mullion
NDGRT/NDH
Section Details: 1/2" Mull Reinforcement

Scale: 3" = 1' 0"

1/2" Mull Reinforcement
NDGRT/NPDG

1/2" Mull Reinforcement
NDGRT, NPDG/NDHP

1/2" Mull Reinforcement
NDGRT, NPDG/NDH