

# Elevate Double Hung

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## Unit Features

Elevate Double Hung: ELDH

Elevate Double Hung Picture: ELDH P

Elevate Double Hung Transom: ELDH TR

Elevate Double Hung IZ3: ELDH IZ3

Elevate Double Hung Picture IZ3: ELDH P IZ3

For applicable certification and code information, refer to the Introduction and Product Performance chapter.

### Frame and Sash:

- The frame and sash exteriors are made of Ultrex® and meets all the requirements of AAMA 624-10.
- Exterior colors: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony. Frame and sash color may be selected independently.
- The interior is non finger-jointed pine, kiln dried to a moisture content of 6-12% at time of fabrication. Water-repellent, preservative treated.
- Interior wood is available as Pine bare wood or factory-applied white, clear, and designer black interior finish. Frame and sash color may be selected independently.

#### Frame:

- Composite frame thickness is 1 9/16", (40). Frame width is 4 9/16", (116). Flat bottom sill with 13 degree bevel. Non finger-jointed pine interior frame liner is applied to all units. Ultrex is .075" (2) thick.

#### Sash:

- Composite sash thickness is 1 17/32" (39). Ultrex is .070" (2) thick.

### Jamb Extension:

- Extension Thickness: 9/16" (14)
- Multiple depths available from 1/8" (3), 1/4"(6), and depths varying between 1/2"(13) and 4"(102) at 1/16" (2) increments
- Maximum jamb depth is 8 9/16". (217)
- 6 13/16" (173) or 6 13/16" (173) jamb extension - factory-applied
- All other jamb depth options are available shipped loose.
- Material: Bare Pine
- Option: factory applied white, designer black and clear lacquer interior finish

### Hardware:

- The balance system is a coil spring block and tackle system, with nylon cord and zinc locking shoe.
- Both sash tilt into the room for cleaning or removal for painting without removing the screen.
- High-pressure zinc die cast check rail lock and keeper.
- Lock employs a cam-lock mechanism.
  - Color: Almond Frost, White, or Matte Black. Optional Bright Brass, Oil Rubbed Bronze, and Satin Nickel.
- Each sash employs spring loaded tilt latches to allow for easy tilting or sash.
- On IZ3 units CN32 widths and wider, two locks are mounted.
- Optional factory applied Window Opening Control Device is available on all sizes. A system consisting of an acetal lever housed in an acetal shell on each stile of the top sash. This device works in accordance to ASTM F2090-10 standard specification for window fall prevention devices with emergency escape.
  - Color: White, Beige, and Black.

### Installation:

- Factory applied folding nailing fin and drip cap system
  - Optional installation brackets for masonry available
  - Optional through jamb installation method with brackets
  - Factory supplied field mulling kits are available for standard assemblies, or 30° and 45° Bay assemblies.
- Recommended method for IZ3 glazed units is installation clips and nailing fin.

## Unit Features Continued

### Glass:

- Standard Glass Makeups:
  - 3/4" nominal thickness insulating glass with Low E2, and Argon gas.
- Glazing Seal: Silicone bedding on interior and exterior
- Gas Fill Options: Argon or Air
- Available Glass coatings:
  - Low E1
  - Low E2
  - Low E3
  - Low ERS
  - Clear (no coating)
- Available Glass Types:
  - Laminate (impact or safety), STC/OITC upgrade, Tempered, Decorative, and California Fire glass (annealed exterior and tempered interior glazing configuration).
- Decorative glass options: Obscure, Glue Chip, Rain, Reed, Narrow Reed, Frost, Tinted (bronze, gray, or green).
- Decorative glass options may be limited due to glass makeup and Low E configurations.
- SDL not available on Rain, Reed and Narrow Reed
- SDL available on Obscure and Frost. Available on annealed or tempered glass.
- SDL available on Glue Chip; tempered glass required.
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations
  - Glass air spaces with capillary tubes are considered air filled

### IZ3 Glazing:

- Optional IZ3 available on selected sizes.
  - IZ3 for winds up to 140 miles per hour.
- Glass is laminated insulated Low E2 or E3 Argon, consisting of annealed or tempered glass exterior and laminated glass interior.
- The laminated glass is comprised of two pieces of glass with either a SGP or PVB laminate layer between.
  - Interior and exterior glazing compound is silicone, in a sandwich style glazing system.

### Weather Strip:

- All units are dual weather stripped.
- All weather strip is beige, black, or white in color.
- Jamb weather strip is a robust foam weather strip that is inserted into a rigid vinyl jamb carrier and used to seal sash to jambs. An additional jamb weather strip is inserted into Ultrex/wood and seals bottom sash to jamb.
- Parting stop is vinyl with a flexible leaf to seal between the header and the upper sash.
- Check rail weather strip is a hollow bulb weather strip attached to bottom of sash.
- Flat foam gasket is used between the jamb and sill.
- Picture and transom units is a hollow bulb weather strip that is inserted into rigid vinyl jamb carrier and head jamb carrier to seal sash. Operator units have a hollow-bulb bottom rail weather strip that seals against the sill.

### Screen:

- Full screen is standard. Half-screen option is available.
- Screen Frame: Aluminum Screen Frame. Option: None
  - Color to match exterior frame color
- Marvin BrightView™, Options: None.
- Spring loaded pins for installation.
- A screen cross bar will be added when Frame OM (height) is equal to or greater than 47 1/2" (1207).

### Interior Jamb Cap:

- Units with Designer Black or White interior finishes are assembled with Interior Jamb Caps and use Jamb Liners with kerfs on the jambs and head jamb.
- Interior Jamb Caps are color matched to the interior finish.

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**Unit Features Continued****Interior / Exterior Simulated Divided Lites (SDL):**

- Interior bar: 7/8" (22) wide bars
  - Pine bare wood with optional white, clear, or designer black interior finish
- Exterior bar: 7/8" (22) wide bars Ultrex, finish to match exterior
  - Patterns available: Rectangle, Cottage style cut, 9 lite Prairie cut or 6 lite Prairie for top sash, bottom sash, or both.
- ELDHP Only: Simulated check rail option: 2 11/32" (60).
  - Patterns available: simulated rail in standard center or customer specified location with 7/8" (22) patterns above, below or both in patterns of rectangular equal lite or prairie lite cut.
- SDL is unavailable with rain, reed, and narrow reed decorative glass patterns. Glue chip pattern requires tempered glass. Available for tinted glass without spacer bars only.

**Grilles-Between-The-Glass (GBG):**

- 23/32" (18) contoured aluminum bar placed between two panes of glass
- Pattern: Standard rectangular pattern, 6 or 9 lite Prairie cut, or Cottage style cut
  - Exterior colors: Stone White, Pebble Gray, Bronze, Cashmere, Gunmetal, or Ebony
  - Interior Colors: White, Bronze or Black
- GBG is available on Laminated glass with a spacer bar 9.8mm or larger.
- GBGs are not available on IZ3 units or tinted glass.

*NOTE: Direct Glaze Round Top with GBG or SDL will only align with the default lite cut of the unit it is intended to be mullied with.  
NFRC values are now located on [www.marvin.com](http://www.marvin.com).*

# Egress and Vent Openings: Standard Product

| CN   | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        | Vent Opening |                | Daylight Opening |                |
|------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|--------------|----------------|------------------|----------------|
|      | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     | Sq. Ft.      | m <sup>2</sup> | Sq. Ft.          | m <sup>2</sup> |
| 2236 | 1-6 3/8              | (467) | 1-0 31/32             | (329) | 1.65            | (0.15)         | 4-0 47/64                        | (1238) | 1.65         | (0.15)         | 2.98             | (0.28)         |
| 2240 | 1-6 3/8              | (467) | 1-2 31/32             | (380) | 1.91            | (0.18)         | 3-8 47/64                        | (1136) | 1.91         | (0.18)         | 3.42             | (0.32)         |
| 2244 | 1-6 3/8              | (467) | 1-4 31/32             | (431) | 2.17            | (0.20)         | 3-4 47/64                        | (1035) | 2.17         | (0.20)         | 3.85             | (0.36)         |
| 2248 | 1-6 3/8              | (467) | 1-6 31/32             | (482) | 2.42            | (0.22)         | 3-0 47/64                        | (933)  | 2.42         | (0.22)         | 4.29             | (0.40)         |
| 2252 | 1-6 3/8              | (467) | 1-8 31/32             | (533) | 2.68            | (0.25)         | 2-8 47/64                        | (831)  | 2.68         | (0.25)         | 4.73             | (0.44)         |
| 2256 | 1-6 3/8              | (467) | 1-10 31/32            | (583) | 2.93            | (0.27)         | 2-4 47/64                        | (730)  | 2.93         | (0.27)         | 5.16             | (0.48)         |
| 2260 | 1-6 3/8              | (467) | 2-0 31/32             | (634) | 3.19            | (0.30)         | 2-0 47/64                        | (628)  | 3.19         | (0.30)         | 5.60             | (0.52)         |
| 2264 | 1-6 3/8              | (467) | 2-2 31/32             | (685) | 3.44            | (0.32)         | 1-8 47/64                        | (527)  | 3.44         | (0.32)         | 6.03             | (1.46)         |
| 2268 | 1-6 3/8              | (467) | 2-4 31/32             | (736) | 3.70            | (0.34)         | 1-4 47/64                        | (425)  | 3.70         | (0.34)         | 6.47             | (0.60)         |
| 2272 | 1-6 3/8              | (467) | 2-6 31/32             | (787) | 3.95            | (0.37)         | 1-0 47/64                        | (323)  | 3.95         | (0.37)         | 6.90             | (0.64)         |
| 2276 | 1-6 3/8              | (467) | 2-8 31/32             | (837) | 4.21            | (0.39)         | 0-8 47/64                        | (222)  | 4.21         | (0.39)         | 7.34             | (0.68)         |
| 2280 | 1-6 3/8              | (467) | 2-10 31/32            | (888) | 4.46            | (0.41)         | 0-4 47/64                        | (120)  | 4.46         | (0.41)         | 7.78             | (0.72)         |
| 2284 | 1-6 3/8              | (467) | 3-0 31/32             | (939) | 4.72            | (0.44)         | 0-0 47/64                        | (19)   | 4.72         | (0.44)         | 8.21             | (0.76)         |
| 2636 | 1-10 3/8             | (568) | 1-0 31/32             | (329) | 2.02            | (0.19)         | 4-0 47/64                        | (1238) | 2.02         | (0.19)         | 3.74             | (0.35)         |
| 2640 | 1-10 3/8             | (568) | 1-2 31/32             | (380) | 2.33            | (0.22)         | 3-8 47/64                        | (1136) | 2.33         | (0.22)         | 4.29             | (0.40)         |
| 2644 | 1-10 3/8             | (568) | 1-4 31/32             | (431) | 2.64            | (0.24)         | 3-4 47/64                        | (1035) | 2.64         | (0.24)         | 4.84             | (0.45)         |
| 2648 | 1-10 3/8             | (568) | 1-6 31/32             | (482) | 2.95            | (0.27)         | 3-0 47/64                        | (933)  | 2.95         | (0.27)         | 5.38             | (0.50)         |
| 2652 | 1-10 3/8             | (568) | 1-8 31/32             | (533) | 3.26            | (0.30)         | 2-8 47/64                        | (831)  | 3.26         | (0.30)         | 5.93             | (0.55)         |
| 2656 | 1-10 3/8             | (568) | 1-10 31/32            | (583) | 3.57            | (0.33)         | 2-4 47/64                        | (730)  | 3.57         | (0.33)         | 6.48             | (0.60)         |
| 2660 | 1-10 3/8             | (568) | 2-0 31/32             | (634) | 3.88            | (0.36)         | 2-0 47/64                        | (628)  | 3.88         | (0.36)         | 7.02             | (0.65)         |
| 2664 | 1-10 3/8             | (568) | 2-2 31/32             | (685) | 4.19            | (0.39)         | 1-8 47/64                        | (527)  | 4.19         | (0.39)         | 7.57             | (0.70)         |
| 2668 | 1-10 3/8             | (568) | 2-4 31/32             | (736) | 4.50            | (0.42)         | 1-4 47/64                        | (425)  | 4.50         | (0.42)         | 8.12             | (0.75)         |
| 2672 | 1-10 3/8             | (568) | 2-6 31/32             | (787) | 4.81            | (0.45)         | 1-0 47/64                        | (323)  | 4.81         | (0.45)         | 8.66             | (0.80)         |
| 2676 | 1-10 3/8             | (568) | 2-8 31/32             | (837) | 5.12            | (0.48)         | 0-8 47/64                        | (222)  | 5.12         | (0.48)         | 9.21             | (0.86)         |
| 2680 | 1-10 3/8             | (568) | 2-10 31/32            | (888) | 5.43            | (0.50)         | 0-4 47/64                        | (120)  | 5.43         | (0.50)         | 9.76             | (0.91)         |
| 2684 | 1-10 3/8             | (568) | 3-0 31/32             | (939) | 5.74            | (0.53)         | 0-0 47/64                        | (19)   | 5.74         | (0.53)         | 10.31            | (0.96)         |
| 3036 | 2-2 3/8              | (670) | 1-0 31/32             | (329) | 2.38            | (0.22)         | 4-0 47/64                        | (1238) | 2.38         | (0.22)         | 4.50             | (0.42)         |
| 3040 | 2-2 3/8              | (670) | 1-2 31/32             | (380) | 2.74            | (0.25)         | 3-8 47/64                        | (1136) | 2.74         | (0.25)         | 5.16             | (0.48)         |
| 3044 | 2-2 3/8              | (670) | 1-4 31/32             | (431) | 3.11            | (0.29)         | 3-4 47/64                        | (1035) | 3.11         | (0.29)         | 5.82             | (0.54)         |
| 3048 | 2-2 3/8              | (670) | 1-6 31/32             | (482) | 3.47            | (0.32)         | 3-0 47/64                        | (933)  | 3.47         | (0.32)         | 6.48             | (0.60)         |
| 3052 | 2-2 3/8              | (670) | 1-8 31/32             | (533) | 3.84            | (0.36)         | 2-8 47/64                        | (831)  | 3.84         | (0.36)         | 7.14             | (0.66)         |
| 3056 | 2-2 3/8              | (670) | 1-10 31/32            | (583) | 4.21            | (0.39)         | 2-4 47/64                        | (730)  | 4.21         | (0.39)         | 7.79             | (0.72)         |
| 3060 | 2-2 3/8              | (670) | 2-0 31/32             | (634) | 4.57            | (0.42)         | 2-0 47/64                        | (628)  | 4.57         | (0.42)         | 8.45             | (0.79)         |
| 3064 | 2-2 3/8              | (670) | 2-2 31/32             | (685) | 4.94            | (0.46)         | 1-8 47/64                        | (527)  | 4.94         | (0.46)         | 9.11             | (0.85)         |
| 3068 | 2-2 3/8              | (670) | 2-4 31/32             | (736) | 5.31            | (0.49)         | 1-4 47/64                        | (425)  | 5.31         | (0.49)         | 9.77             | (0.91)         |
| 3072 | 2-2 3/8              | (670) | 2-6 31/32             | (787) | 5.67            | (0.53)         | 1-0 47/64                        | (323)  | 5.67         | (0.53)         | 10.43            | (0.97)         |
| 3076 | 2-2 3/8              | (670) | 2-8 31/32             | (837) | 6.04            | (0.56)         | 0-8 47/64                        | (222)  | 6.04         | (0.56)         | 11.08            | (1.03)         |
| 3080 | 2-2 3/8              | (670) | 2-10 31/32            | (888) | 6.40            | (0.60)         | 0-4 47/64                        | (120)  | 6.40         | (0.60)         | 11.74            | (1.09)         |
| 3084 | 2-2 3/8              | (670) | 3-0 31/32             | (939) | 6.77            | (0.63)         | 0-0 47/64                        | (19)   | 6.77         | (0.63)         | 12.40            | (1.15)         |
| 3236 | 2-4 3/8              | (721) | 1-0 31/32             | (329) | 2.56            | (0.24)         | 4-0 47/64                        | (1238) | 2.56         | (0.24)         | 4.88             | (0.45)         |
| 3240 | 2-4 3/8              | (721) | 1-2 31/32             | (380) | 2.95            | (0.27)         | 3-8 47/64                        | (1136) | 2.95         | (0.27)         | 5.60             | (0.52)         |
| 3244 | 2-4 3/8              | (721) | 1-4 31/32             | (431) | 3.34            | (0.31)         | 3-4 47/64                        | (1035) | 3.34         | (0.31)         | 6.31             | (0.59)         |
| 3248 | 2-4 3/8              | (721) | 1-6 31/32             | (482) | 3.74            | (0.35)         | 3-0 47/64                        | (933)  | 3.74         | (0.35)         | 7.02             | (0.65)         |
| 3252 | 2-4 3/8              | (721) | 1-8 31/32             | (533) | 4.13            | (0.38)         | 2-8 47/64                        | (831)  | 4.13         | (0.38)         | 7.74             | (0.72)         |
| 3256 | 2-4 3/8              | (721) | 1-10 31/32            | (583) | 4.53            | (0.42)         | 2-4 47/64                        | (730)  | 4.53         | (0.42)         | 8.45             | (0.79)         |
| 3260 | 2-4 3/8              | (721) | 2-0 31/32             | (634) | 4.92            | (0.46)         | 2-0 47/64                        | (628)  | 4.92         | (0.46)         | 9.16             | (0.85)         |
| 3264 | 2-4 3/8              | (721) | 2-2 31/32             | (685) | 5.31            | (0.49)         | 1-8 47/64                        | (527)  | 5.31         | (0.49)         | 9.88             | (0.92)         |
| 3268 | 2-4 3/8              | (721) | 2-4 31/32             | (736) | 5.71            | (0.53)         | 1-4 47/64                        | (425)  | 5.71         | (0.53)         | 10.59            | (0.98)         |
| 3272 | 2-4 3/8              | (721) | 2-6 31/32             | (787) | 6.10            | (0.57)         | 1-0 47/64                        | (323)  | 6.10         | (0.57)         | 11.31            | (1.05)         |
| 3276 | 2-4 3/8              | (721) | 2-8 31/32             | (837) | 6.50            | (0.60)         | 0-8 47/64                        | (222)  | 6.50         | (0.60)         | 12.02            | (1.12)         |
| 3280 | 2-4 3/8              | (721) | 2-10 31/32            | (888) | 6.89            | (0.64)         | 0-4 47/64                        | (120)  | 6.89         | (0.64)         | 12.73            | (1.18)         |
| 3284 | 2-4 3/8              | (721) | 3-0 31/32             | (939) | 7.28            | (0.68)         | 0-0 47/64                        | (19)   | 7.28         | (0.68)         | 13.45            | (1.25)         |

# Egress and Vent Openings: Standard Product

| CN     | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        | Vent Opening |        | Daylight Opening |        |
|--------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|--------------|--------|------------------|--------|
|        | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     | Sq. Ft.      | m2     | Sq. Ft.          | m2     |
| 3436   | 2-6 3/8              | (771) | 1-0 31/32             | (329) | 2.74            | (0.25)         | 4-0 47/64                        | (1238) | 2.74         | (0.25) | 5.26             | (0.49) |
| 3440   | 2-6 3/8              | (771) | 1-2 31/32             | (380) | 3.16            | (0.29)         | 3-8 47/64                        | (1136) | 3.16         | (0.29) | 6.03             | (0.56) |
| 3444   | 2-6 3/8              | (771) | 1-4 31/32             | (431) | 3.58            | (0.33)         | 3-4 47/64                        | (1035) | 3.58         | (0.33) | 6.80             | (0.63) |
| 3448   | 2-6 3/8              | (771) | 1-6 31/32             | (482) | 4.00            | (0.37)         | 3-0 47/64                        | (933)  | 4.00         | (0.37) | 7.57             | (0.70) |
| 3452   | 2-6 3/8              | (771) | 1-8 31/32             | (533) | 4.42            | (0.41)         | 2-8 47/64                        | (831)  | 4.42         | (0.41) | 8.34             | (0.77) |
| 3456   | 2-6 3/8              | (771) | 1-10 31/32            | (583) | 4.84            | (0.45)         | 2-4 47/64                        | (730)  | 4.84         | (0.45) | 9.11             | (0.85) |
| 3460   | 2-6 3/8              | (771) | 2-0 31/32             | (634) | 5.27            | (0.49)         | 2-0 47/64                        | (628)  | 5.27         | (0.49) | 9.88             | (0.92) |
| 3464   | 2-6 3/8              | (771) | 2-2 31/32             | (685) | 5.69            | (0.53)         | 1-8 47/64                        | (527)  | 5.69         | (0.53) | 10.65            | (0.99) |
| 3468 E | 2-6 3/8              | (771) | 2-4 31/32             | (736) | 6.11            | (0.57)         | 1-4 47/64                        | (425)  | 6.11         | (0.57) | 11.42            | (1.06) |
| 3472 E | 2-6 3/8              | (771) | 2-6 31/32             | (787) | 6.53            | (0.61)         | 1-0 47/64                        | (323)  | 6.53         | (0.61) | 12.19            | (1.13) |
| 3476 E | 2-6 3/8              | (771) | 2-8 31/32             | (837) | 6.95            | (0.65)         | 0-8 47/64                        | (222)  | 6.95         | (0.65) | 12.95            | (1.20) |
| 3480 E | 2-6 3/8              | (771) | 2-10 31/32            | (888) | 7.38            | (0.69)         | 0-4 47/64                        | (120)  | 7.38         | (0.69) | 13.72            | (1.28) |
| 3484 E | 2-6 3/8              | (771) | 3-0 31/32             | (939) | 7.80            | (0.72)         | 0-0 47/64                        | (19)   | 7.80         | (0.72) | 14.49            | (1.35) |
| 3636   | 2-8 3/8              | (822) | 1-0 31/32             | (329) | 2.92            | (0.27)         | 4-0 47/64                        | (1238) | 2.92         | (0.27) | 5.64             | (0.52) |
| 3640   | 2-8 3/8              | (822) | 1-2 31/32             | (380) | 3.37            | (0.31)         | 3-8 47/64                        | (1136) | 3.37         | (0.31) | 6.47             | (0.60) |
| 3644   | 2-8 3/8              | (822) | 1-4 31/32             | (431) | 3.82            | (0.35)         | 3-4 47/64                        | (1035) | 3.82         | (0.35) | 7.29             | (0.68) |
| 3648   | 2-8 3/8              | (822) | 1-6 31/32             | (482) | 4.26            | (0.40)         | 3-0 47/64                        | (933)  | 4.26         | (0.40) | 8.12             | (0.75) |
| 3652   | 2-8 3/8              | (822) | 1-8 31/32             | (533) | 4.71            | (0.44)         | 2-8 47/64                        | (831)  | 4.71         | (0.44) | 8.94             | (0.83) |
| 3656   | 2-8 3/8              | (822) | 1-10 31/32            | (583) | 5.16            | (0.48)         | 2-4 47/64                        | (730)  | 5.16         | (0.48) | 9.77             | (0.91) |
| 3660 E | 2-8 3/8              | (822) | 2-1 49/64             | (655) | 5.79            | (0.54)         | 2-0 47/64                        | (628)  | 5.79         | (0.54) | 10.59            | (0.98) |
| 3664 E | 2-8 3/8              | (822) | 2-2 31/32             | (685) | 6.06            | (0.56)         | 1-8 47/64                        | (527)  | 6.06         | (0.56) | 11.42            | (1.06) |
| 3668 E | 2-8 3/8              | (822) | 2-4 31/32             | (736) | 6.51            | (0.61)         | 1-4 47/64                        | (425)  | 6.51         | (0.61) | 12.24            | (1.14) |
| 3672 E | 2-8 3/8              | (822) | 2-6 31/32             | (787) | 6.96            | (0.65)         | 1-0 47/64                        | (323)  | 6.96         | (0.65) | 13.07            | (1.21) |
| 3676 E | 2-8 3/8              | (822) | 2-8 31/32             | (837) | 7.41            | (0.69)         | 0-8 47/64                        | (222)  | 7.41         | (0.69) | 13.89            | (1.29) |
| 3680 E | 2-8 3/8              | (822) | 2-10 31/32            | (888) | 7.86            | (0.73)         | 0-4 47/64                        | (120)  | 7.86         | (0.73) | 14.72            | (1.37) |
| 3684 E | 2-8 3/8              | (822) | 3-0 31/32             | (939) | 8.31            | (0.77)         | 0-0 47/64                        | (19)   | 8.31         | (0.77) | 15.54            | (1.44) |
| 3836   | 2-10 3/8             | (873) | 1-0 31/32             | (329) | 3.10            | (0.29)         | 4-0 47/64                        | (1238) | 3.10         | (0.29) | 6.02             | (0.56) |
| 3840   | 2-10 3/8             | (873) | 1-2 31/32             | (380) | 3.57            | (0.33)         | 3-8 47/64                        | (1136) | 3.57         | (0.33) | 6.90             | (0.64) |
| 3844   | 2-10 3/8             | (873) | 1-4 31/32             | (431) | 4.05            | (0.38)         | 3-4 47/64                        | (1035) | 4.05         | (0.38) | 7.78             | (0.72) |
| 3848   | 2-10 3/8             | (873) | 1-6 31/32             | (482) | 4.53            | (0.42)         | 3-0 47/64                        | (933)  | 4.53         | (0.42) | 8.66             | (0.80) |
| 3852   | 2-10 3/8             | (873) | 1-8 31/32             | (533) | 5.01            | (0.47)         | 2-8 47/64                        | (831)  | 5.01         | (0.47) | 9.55             | (0.89) |
| 3856   | 2-10 3/8             | (873) | 1-10 31/32            | (583) | 5.48            | (0.51)         | 2-4 47/64                        | (730)  | 5.48         | (0.51) | 10.43            | (0.97) |
| 3860 E | 2-10 3/8             | (873) | 2-0 31/32             | (634) | 5.96            | (0.55)         | 2-0 47/64                        | (628)  | 5.96         | (0.55) | 11.31            | (1.05) |
| 3864 E | 2-10 3/8             | (873) | 2-2 31/32             | (685) | 6.44            | (0.60)         | 1-8 47/64                        | (527)  | 6.44         | (0.60) | 12.19            | (1.13) |
| 3868 E | 2-10 3/8             | (873) | 2-4 31/32             | (736) | 6.92            | (0.64)         | 1-4 47/64                        | (425)  | 6.92         | (0.64) | 13.07            | (1.21) |
| 3872 E | 2-10 3/8             | (873) | 2-6 31/32             | (787) | 7.39            | (0.69)         | 1-0 47/64                        | (323)  | 7.39         | (0.69) | 13.95            | (1.30) |
| 3876 E | 2-10 3/8             | (873) | 2-8 31/32             | (837) | 7.87            | (0.73)         | 0-8 47/64                        | (222)  | 7.87         | (0.73) | 14.83            | (1.38) |
| 3880 E | 2-10 3/8             | (873) | 2-10 31/32            | (888) | 8.35            | (0.78)         | 0-4 47/64                        | (120)  | 8.35         | (0.78) | 15.71            | (1.46) |
| 3884 E | 2-10 3/8             | (873) | 3-0 31/32             | (939) | 8.82            | (0.82)         | 0-0 47/64                        | (19)   | 8.82         | (0.82) | 16.59            | (1.54) |
| 4236   | 3-2 3/8              | (975) | 1-0 31/32             | (329) | 3.46            | (0.32)         | 4-0 47/64                        | (1238) | 3.46         | (0.32) | 6.78             | (0.63) |
| 4240   | 3-2 3/8              | (975) | 1-2 31/32             | (380) | 3.99            | (0.37)         | 3-8 47/64                        | (1136) | 3.99         | (0.37) | 7.78             | (0.72) |
| 4244   | 3-2 3/8              | (975) | 1-4 31/32             | (431) | 4.52            | (0.42)         | 3-4 47/64                        | (1035) | 4.52         | (0.42) | 8.77             | (0.81) |
| 4248   | 3-2 3/8              | (975) | 1-6 31/32             | (482) | 5.06            | (0.47)         | 3-0 47/64                        | (933)  | 5.06         | (0.47) | 9.76             | (0.91) |
| 4252   | 3-2 3/8              | (975) | 1-8 31/32             | (533) | 5.59            | (0.52)         | 2-8 47/64                        | (831)  | 5.59         | (0.52) | 10.75            | (1.00) |
| 4256   | 3-2 3/8              | (975) | 1-10 31/32            | (583) | 6.12            | (0.57)         | 2-4 47/64                        | (730)  | 6.12         | (0.57) | 11.74            | (1.09) |
| 4260 E | 3-2 3/8              | (975) | 2-0 31/32             | (634) | 6.65            | (0.62)         | 2-0 47/64                        | (628)  | 6.65         | (0.62) | 12.73            | (1.18) |
| 4264 E | 3-2 3/8              | (975) | 2-2 31/32             | (685) | 7.19            | (0.67)         | 1-8 47/64                        | (527)  | 7.19         | (0.67) | 13.72            | (1.28) |
| 4268 E | 3-2 3/8              | (975) | 2-4 31/32             | (736) | 7.72            | (0.72)         | 1-4 47/64                        | (425)  | 7.72         | (0.72) | 14.72            | (1.37) |
| 4272 E | 3-2 3/8              | (975) | 2-6 31/32             | (787) | 8.25            | (0.77)         | 1-0 47/64                        | (323)  | 8.25         | (0.77) | 15.71            | (1.46) |
| 4276 E | 3-2 3/8              | (975) | 2-8 31/32             | (837) | 8.79            | (0.82)         | 0-8 47/64                        | (222)  | 8.79         | (0.82) | 16.70            | (1.55) |
| 4280 E | 3-2 3/8              | (975) | 2-10 31/32            | (888) | 9.32            | (0.87)         | 0-4 47/64                        | (120)  | 9.32         | (0.87) | 17.69            | (1.64) |
| 4284 E | 3-2 3/8              | (975) | 3-0 31/32             | (939) | 9.85            | (0.92)         | 0-0 47/64                        | (19)   | 9.85         | (0.92) | 18.68            | (1.74) |

## Egress and Vent Openings: Standard Product

| CN     | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        | Vent Opening |        | Daylight Opening |        |
|--------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|--------------|--------|------------------|--------|
|        | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     | Sq. Ft.      | m2     | Sq. Ft.          | m2     |
| 4836   | 3-8 3/8              | (1127) | 1-0 31/32             | (329) | 4.00            | (0.37)         | 4-0 47/64                        | (1238) | 4.00         | (0.37) | 7.93             | (0.74) |
| 4840   | 3-8 3/8              | (1127) | 1-2 31/32             | (380) | 4.61            | (0.43)         | 3-8 47/64                        | (1136) | 4.61         | (0.43) | 9.08             | (0.84) |
| 4844   | 3-8 3/8              | (1127) | 1-4 31/32             | (431) | 5.23            | (0.49)         | 3-4 47/64                        | (1035) | 5.23         | (0.49) | 10.24            | (0.95) |
| 4848   | 3-8 3/8              | (1127) | 1-6 31/32             | (482) | 5.85            | (0.54)         | 3-0 47/64                        | (933)  | 5.85         | (0.54) | 11.40            | (1.06) |
| 4852   | 3-8 3/8              | (1127) | 1-8 31/32             | (533) | 6.46            | (0.60)         | 2-8 47/64                        | (831)  | 6.46         | (0.60) | 12.56            | (1.17) |
| 4856   | 3-8 3/8              | (1127) | 1-10 31/32            | (583) | 7.08            | (0.66)         | 2-4 47/64                        | (730)  | 7.08         | (0.66) | 13.72            | (1.27) |
| 4860 E | 3-8 3/8              | (1127) | 2-0 31/32             | (634) | 7.69            | (0.71)         | 2-0 47/64                        | (628)  | 7.69         | (0.71) | 14.87            | (1.38) |
| 4864 E | 3-8 3/8              | (1127) | 2-2 31/32             | (685) | 8.31            | (0.77)         | 1-8 47/64                        | (527)  | 8.31         | (0.77) | 16.03            | (1.49) |
| 4868 E | 3-8 3/8              | (1127) | 2-4 31/32             | (736) | 8.93            | (0.83)         | 1-4 47/64                        | (425)  | 8.93         | (0.83) | 17.19            | (1.60) |
| 4872 E | 3-8 3/8              | (1127) | 2-6 31/32             | (787) | 9.54            | (0.89)         | 1-0 47/64                        | (323)  | 9.54         | (0.89) | 18.35            | (1.70) |
| 4876 E | 3-8 3/8              | (1127) | 2-8 31/32             | (837) | 10.16           | (0.94)         | 0-8 47/64                        | (222)  | 10.16        | (0.94) | 19.51            | (1.81) |
| 4880 E | 3-8 3/8              | (1127) | 2-10 31/32            | (888) | 10.78           | (1.00)         | 0-4 47/64                        | (120)  | 10.78        | (1.00) | 20.66            | (1.92) |
| 4884 E | 3-8 3/8              | (1127) | 3-0 31/32             | (939) | 11.39           | (1.06)         | 0-0 47/64                        | (19)   | 11.39        | (1.06) | 21.82            | (2.03) |
| 5436   | 4-2 3/8              | (1279) | 1-0 31/32             | (329) | 4.54            | (0.42)         | 4-0 47/64                        | (1238) | 4.54         | (0.42) | 9.07             | (0.84) |
| 5440   | 4-2 3/8              | (1279) | 1-2 31/32             | (380) | 5.24            | (0.49)         | 3-8 47/64                        | (1136) | 5.24         | (0.49) | 10.39            | (0.97) |
| 5444   | 4-2 3/8              | (1279) | 1-4 31/32             | (431) | 5.94            | (0.55)         | 3-4 47/64                        | (1035) | 5.94         | (0.55) | 11.72            | (1.09) |
| 5448   | 4-2 3/8              | (1279) | 1-6 31/32             | (482) | 6.64            | (0.62)         | 3-0 47/64                        | (933)  | 6.64         | (0.62) | 13.04            | (1.21) |
| 5452   | 4-2 3/8              | (1279) | 1-8 31/32             | (533) | 7.34            | (0.68)         | 2-8 47/64                        | (831)  | 7.34         | (0.68) | 14.36            | (1.33) |
| 5456   | 4-2 3/8              | (1279) | 1-10 31/32            | (583) | 8.04            | (0.75)         | 2-4 47/64                        | (730)  | 8.04         | (0.75) | 15.69            | (1.46) |
| 5460 E | 4-2 3/8              | (1279) | 2-0 31/32             | (634) | 8.73            | (0.81)         | 2-0 47/64                        | (628)  | 8.73         | (0.81) | 17.01            | (1.58) |
| 5464 E | 4-2 3/8              | (1279) | 2-2 31/32             | (685) | 9.43            | (0.88)         | 1-8 47/64                        | (527)  | 9.43         | (0.88) | 18.34            | (1.70) |
| 5468 E | 4-2 3/8              | (1279) | 2-4 31/32             | (736) | 10.13           | (0.94)         | 1-4 47/64                        | (425)  | 10.13        | (0.94) | 19.66            | (1.83) |
| 5472 E | 4-2 3/8              | (1279) | 2-6 31/32             | (787) | 10.83           | (1.01)         | 1-0 47/64                        | (323)  | 10.83        | (1.01) | 20.99            | (1.95) |
| 5476 E | 4-2 3/8              | (1279) | 2-8 31/32             | (837) | 11.53           | (1.07)         | 0-8 47/64                        | (222)  | 11.53        | (1.07) | 22.31            | (2.07) |
| 5480 E | 4-2 3/8              | (1279) | 2-10 31/32            | (888) | 12.23           | (1.14)         | 0-4 47/64                        | (120)  | 12.23        | (1.14) | 23.64            | (2.20) |
| 5484 E | 4-2 3/8              | (1279) | 3-0 31/32             | (939) | 12.93           | (1.20)         | 0-0 47/64                        | (19)   | 12.93        | (1.20) | 24.96            | (2.32) |

## Egress and Vent Openings: High-Performance

| CN   | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|      | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236 | 1-6 3/8              | (467) | 1-0 33/64             | (318) | 1.60            | (0.15)         | 4-1 3/16                         | (1249) |
| 2240 | 1-6 3/8              | (467) | 1-2 33/64             | (369) | 1.85            | (0.17)         | 3-9 3/16                         | (1148) |
| 2244 | 1-6 3/8              | (467) | 1-4 33/64             | (419) | 2.11            | (0.20)         | 3-5 3/16                         | (1046) |
| 2248 | 1-6 3/8              | (467) | 1-6 33/64             | (470) | 2.36            | (0.22)         | 3-1 3/16                         | (945)  |
| 2252 | 1-6 3/8              | (467) | 1-8 33/64             | (521) | 2.62            | (0.24)         | 2-9 3/16                         | (843)  |
| 2256 | 1-6 3/8              | (467) | 1-10 33/64            | (572) | 2.87            | (0.27)         | 2-5 3/16                         | (741)  |
| 2260 | 1-6 3/8              | (467) | 2-0 33/64             | (623) | 3.13            | (0.29)         | 2-1 3/16                         | (640)  |
| 2264 | 1-6 3/8              | (467) | 2-2 33/64             | (673) | 3.38            | (0.31)         | 1-9 3/16                         | (538)  |
| 2268 | 1-6 3/8              | (467) | 2-4 33/64             | (724) | 3.64            | (0.34)         | 1-5 3/16                         | (437)  |
| 2272 | 1-6 3/8              | (467) | 2-6 33/64             | (775) | 3.89            | (0.36)         | 1-1 3/16                         | (335)  |
| 2276 | 1-6 3/8              | (467) | 2-8 33/64             | (826) | 4.15            | (0.39)         | 0-9 3/16                         | (233)  |
| 2636 | 1-10 3/8             | (568) | 1-0 33/64             | (318) | 1.94            | (0.18)         | 4-1 3/16                         | (1249) |
| 2640 | 1-10 3/8             | (568) | 1-2 33/64             | (369) | 2.25            | (0.21)         | 3-9 3/16                         | (1148) |
| 2644 | 1-10 3/8             | (568) | 1-4 33/64             | (419) | 2.57            | (0.24)         | 3-5 3/16                         | (1046) |
| 2648 | 1-10 3/8             | (568) | 1-6 33/64             | (470) | 2.88            | (0.27)         | 3-1 3/16                         | (945)  |
| 2652 | 1-10 3/8             | (568) | 1-8 33/64             | (521) | 3.19            | (0.30)         | 2-9 3/16                         | (843)  |
| 2656 | 1-10 3/8             | (568) | 1-10 33/64            | (572) | 3.50            | (0.32)         | 2-5 3/16                         | (741)  |
| 2660 | 1-10 3/8             | (568) | 2-0 33/64             | (623) | 3.81            | (0.35)         | 2-1 3/16                         | (640)  |
| 2664 | 1-10 3/8             | (568) | 2-2 33/64             | (673) | 4.12            | (0.38)         | 1-9 3/16                         | (538)  |
| 2668 | 1-10 3/8             | (568) | 2-4 33/64             | (724) | 4.43            | (0.41)         | 1-5 3/16                         | (437)  |
| 2672 | 1-10 3/8             | (568) | 2-6 33/64             | (775) | 4.74            | (0.44)         | 1-1 3/16                         | (335)  |
| 2676 | 1-10 3/8             | (568) | 2-8 33/64             | (826) | 5.05            | (0.47)         | 0-9 3/16                         | (233)  |
| 3036 | 2-2 3/8              | (670) | 1-0 33/64             | (318) | 2.29            | (0.21)         | 4-1 3/16                         | (1249) |
| 3040 | 2-2 3/8              | (670) | 1-2 33/64             | (369) | 2.66            | (0.25)         | 3-9 3/16                         | (1148) |
| 3044 | 2-2 3/8              | (670) | 1-4 33/64             | (419) | 3.02            | (0.28)         | 3-5 3/16                         | (1046) |
| 3048 | 2-2 3/8              | (670) | 1-6 33/64             | (470) | 3.39            | (0.31)         | 3-1 3/16                         | (945)  |
| 3052 | 2-2 3/8              | (670) | 1-8 33/64             | (521) | 3.76            | (0.35)         | 2-9 3/16                         | (843)  |
| 3056 | 2-2 3/8              | (670) | 1-10 33/64            | (572) | 4.12            | (0.38)         | 2-5 3/16                         | (741)  |
| 3060 | 2-2 3/8              | (670) | 2-0 33/64             | (623) | 4.49            | (0.42)         | 2-1 3/16                         | (640)  |
| 3064 | 2-2 3/8              | (670) | 2-2 33/64             | (673) | 4.86            | (0.45)         | 1-9 3/16                         | (538)  |
| 3068 | 2-2 3/8              | (670) | 2-4 33/64             | (724) | 5.22            | (0.49)         | 1-5 3/16                         | (437)  |
| 3072 | 2-2 3/8              | (670) | 2-6 33/64             | (775) | 5.59            | (0.52)         | 1-1 3/16                         | (335)  |
| 3076 | 2-2 3/8              | (670) | 2-8 33/64             | (826) | 5.95            | (0.55)         | 0-9 3/16                         | (233)  |
| 3236 | 2-4 3/8              | (721) | 1-0 33/64             | (318) | 2.47            | (0.23)         | 4-1 3/16                         | (1249) |
| 3240 | 2-4 3/8              | (721) | 1-2 33/64             | (369) | 2.86            | (0.27)         | 3-9 3/16                         | (1148) |
| 3244 | 2-4 3/8              | (721) | 1-4 33/64             | (419) | 3.25            | (0.30)         | 3-5 3/16                         | (1046) |
| 3248 | 2-4 3/8              | (721) | 1-6 33/64             | (470) | 3.65            | (0.34)         | 3-1 3/16                         | (945)  |
| 3252 | 2-4 3/8              | (721) | 1-8 33/64             | (521) | 4.04            | (0.38)         | 2-9 3/16                         | (843)  |
| 3256 | 2-4 3/8              | (721) | 1-10 33/64            | (572) | 4.44            | (0.41)         | 2-5 3/16                         | (741)  |
| 3260 | 2-4 3/8              | (721) | 2-0 33/64             | (623) | 4.83            | (0.45)         | 2-1 3/16                         | (640)  |
| 3264 | 2-4 3/8              | (721) | 2-2 33/64             | (673) | 5.22            | (0.49)         | 1-9 3/16                         | (538)  |
| 3268 | 2-4 3/8              | (721) | 2-4 33/64             | (724) | 5.62            | (0.52)         | 1-5 3/16                         | (437)  |
| 3272 | 2-4 3/8              | (721) | 2-6 33/64             | (775) | 6.01            | (0.56)         | 1-1 3/16                         | (335)  |
| 3276 | 2-4 3/8              | (721) | 2-8 33/64             | (826) | 6.41            | (0.60)         | 0-9 3/16                         | (233)  |
| 3436 | 2-6 3/8              | (771) | 1-0 33/64             | (318) | 2.64            | (0.25)         | 4-1 3/16                         | (1249) |
| 3440 | 2-6 3/8              | (771) | 1-2 33/64             | (369) | 3.06            | (0.28)         | 3-9 3/16                         | (1148) |
| 3444 | 2-6 3/8              | (771) | 1-4 33/64             | (419) | 3.48            | (0.32)         | 3-5 3/16                         | (1046) |
| 3448 | 2-6 3/8              | (771) | 1-6 33/64             | (470) | 3.90            | (0.36)         | 3-1 3/16                         | (945)  |
| 3452 | 2-6 3/8              | (771) | 1-8 33/64             | (521) | 4.33            | (0.40)         | 2-9 3/16                         | (843)  |
| 3456 | 2-6 3/8              | (771) | 1-10 33/64            | (572) | 4.75            | (0.44)         | 2-5 3/16                         | (741)  |
| 3460 | 2-6 3/8              | (771) | 2-0 33/64             | (623) | 5.17            | (0.48)         | 2-1 3/16                         | (640)  |
| 3464 | 2-6 3/8              | (771) | 2-2 33/64             | (673) | 5.59            | (0.52)         | 1-9 3/16                         | (538)  |
| 3468 | 2-6 3/8              | (771) | 2-4 33/64             | (724) | 6.01            | (0.56)         | 1-5 3/16                         | (437)  |
| 3472 | 2-6 3/8              | (771) | 2-6 33/64             | (775) | 6.44            | (0.60)         | 1-1 3/16                         | (335)  |
| 3476 | 2-6 3/8              | (771) | 2-8 33/64             | (826) | 6.86            | (0.64)         | 0-9 3/16                         | (233)  |

## Egress and Vent Openings: High-Performance

| CN     | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3636   | 2-8 3/8              | (822)  | 1-0 33/64             | (318) | 2.81            | (0.26)         | 4-1 3/16                         | (1249) |
| 3640   | 2-8 3/8              | (822)  | 1-2 33/64             | (369) | 3.26            | (0.30)         | 3-9 3/16                         | (1148) |
| 3644   | 2-8 3/8              | (822)  | 1-4 33/64             | (419) | 3.71            | (0.34)         | 3-5 3/16                         | (1046) |
| 3648   | 2-8 3/8              | (822)  | 1-6 33/64             | (470) | 4.16            | (0.39)         | 3-1 3/16                         | (945)  |
| 3652   | 2-8 3/8              | (822)  | 1-8 33/64             | (521) | 4.61            | (0.43)         | 2-9 3/16                         | (843)  |
| 3656   | 2-8 3/8              | (822)  | 1-10 33/64            | (572) | 5.06            | (0.47)         | 2-5 3/16                         | (741)  |
| 3660   | 2-8 3/8              | (822)  | 2-0 33/64             | (623) | 5.51            | (0.51)         | 2-1 3/16                         | (640)  |
| 3664 E | 2-8 3/8              | (822)  | 2-2 33/64             | (673) | 5.96            | (0.55)         | 1-9 3/16                         | (538)  |
| 3668 E | 2-8 3/8              | (822)  | 2-4 33/64             | (724) | 6.41            | (0.60)         | 1-5 3/16                         | (437)  |
| 3672 E | 2-8 3/8              | (822)  | 2-6 33/64             | (775) | 6.86            | (0.64)         | 1-1 3/16                         | (335)  |
| 3676 E | 2-8 3/8              | (822)  | 2-8 33/64             | (826) | 7.31            | (0.68)         | 0-9 3/16                         | (233)  |
| 3836   | 2-10 3/8             | (873)  | 1-0 33/64             | (318) | 2.99            | (0.28)         | 4-1 3/16                         | (1249) |
| 3840   | 2-10 3/8             | (873)  | 1-2 33/64             | (369) | 3.46            | (0.32)         | 3-9 3/16                         | (1148) |
| 3844   | 2-10 3/8             | (873)  | 1-4 33/64             | (419) | 3.94            | (0.37)         | 3-5 3/16                         | (1046) |
| 3848   | 2-10 3/8             | (873)  | 1-6 33/64             | (470) | 4.42            | (0.41)         | 3-1 3/16                         | (945)  |
| 3852   | 2-10 3/8             | (873)  | 1-8 33/64             | (521) | 4.90            | (0.45)         | 2-9 3/16                         | (843)  |
| 3856   | 2-10 3/8             | (873)  | 1-10 33/64            | (572) | 5.37            | (0.50)         | 2-5 3/16                         | (741)  |
| 3860 E | 2-10 3/8             | (873)  | 2-0 33/64             | (623) | 5.85            | (0.54)         | 2-1 3/16                         | (640)  |
| 3864 E | 2-10 3/8             | (873)  | 2-2 33/64             | (673) | 6.33            | (0.59)         | 1-9 3/16                         | (538)  |
| 3868 E | 2-10 3/8             | (873)  | 2-4 33/64             | (724) | 6.81            | (0.63)         | 1-5 3/16                         | (437)  |
| 3872 E | 2-10 3/8             | (873)  | 2-6 33/64             | (775) | 7.28            | (0.68)         | 1-1 3/16                         | (335)  |
| 3876 E | 2-10 3/8             | (873)  | 2-8 33/64             | (826) | 7.76            | (0.72)         | 0-9 3/16                         | (233)  |
| 4236   | 3-2 3/8              | (975)  | 1-0 33/64             | (318) | 3.33            | (0.31)         | 4-1 3/16                         | (1249) |
| 4240   | 3-2 3/8              | (975)  | 1-2 33/64             | (369) | 3.87            | (0.36)         | 3-9 3/16                         | (1148) |
| 4244   | 3-2 3/8              | (975)  | 1-4 33/64             | (419) | 4.40            | (0.41)         | 3-5 3/16                         | (1046) |
| 4248   | 3-2 3/8              | (975)  | 1-6 33/64             | (470) | 4.93            | (0.46)         | 3-1 3/16                         | (945)  |
| 4252   | 3-2 3/8              | (975)  | 1-8 33/64             | (521) | 5.47            | (0.51)         | 2-9 3/16                         | (843)  |
| 4256   | 3-2 3/8              | (975)  | 1-10 33/64            | (572) | 6.00            | (0.56)         | 2-5 3/16                         | (741)  |
| 4260 E | 3-2 3/8              | (975)  | 2-0 33/64             | (623) | 6.53            | (0.61)         | 2-1 3/16                         | (640)  |
| 4264 E | 3-2 3/8              | (975)  | 2-2 33/64             | (673) | 7.06            | (0.66)         | 1-9 3/16                         | (538)  |
| 4268 E | 3-2 3/8              | (975)  | 2-4 33/64             | (724) | 7.60            | (0.71)         | 1-5 3/16                         | (437)  |
| 4272 E | 3-2 3/8              | (975)  | 2-6 33/64             | (775) | 8.13            | (0.76)         | 1-1 3/16                         | (335)  |
| 4276 E | 3-2 3/8              | (975)  | 2-8 33/64             | (826) | 8.66            | (0.80)         | 0-9 3/16                         | (233)  |
| 4836   | 3-8 3/8              | (1127) | 1-0 33/64             | (318) | 3.86            | (0.36)         | 4-1 3/16                         | (1249) |
| 4840   | 3-8 3/8              | (1127) | 1-2 33/64             | (369) | 4.47            | (0.42)         | 3-9 3/16                         | (1148) |
| 4844   | 3-8 3/8              | (1127) | 1-4 33/64             | (419) | 5.09            | (0.47)         | 3-5 3/16                         | (1046) |
| 4848   | 3-8 3/8              | (1127) | 1-6 33/64             | (470) | 5.70            | (0.53)         | 3-1 3/16                         | (945)  |
| 4852   | 3-8 3/8              | (1127) | 1-8 33/64             | (521) | 6.32            | (0.59)         | 2-9 3/16                         | (843)  |
| 4856   | 3-8 3/8              | (1127) | 1-10 33/64            | (572) | 6.94            | (0.64)         | 2-5 3/16                         | (741)  |
| 4860 E | 3-8 3/8              | (1127) | 2-0 33/64             | (623) | 7.55            | (0.70)         | 2-1 3/16                         | (640)  |
| 4864 E | 3-8 3/8              | (1127) | 2-2 33/64             | (673) | 8.17            | (0.76)         | 1-9 3/16                         | (538)  |
| 4868 E | 3-8 3/8              | (1127) | 2-4 33/64             | (724) | 8.79            | (0.82)         | 1-5 3/16                         | (437)  |
| 4872 E | 3-8 3/8              | (1127) | 2-6 33/64             | (775) | 9.40            | (0.87)         | 1-1 3/16                         | (335)  |
| 4876 E | 3-8 3/8              | (1127) | 2-8 33/64             | (826) | 10.02           | (0.93)         | 0-9 3/16                         | (233)  |
| 5436   | 4-2 3/8              | (1279) | 1-0 33/64             | (318) | 4.38            | (0.41)         | 4-1 3/16                         | (1249) |
| 5440   | 4-2 3/8              | (1279) | 1-2 33/64             | (369) | 5.08            | (0.47)         | 3-9 3/16                         | (1148) |
| 5444   | 4-2 3/8              | (1279) | 1-4 33/64             | (419) | 5.78            | (0.54)         | 3-5 3/16                         | (1046) |
| 5448   | 4-2 3/8              | (1279) | 1-6 33/64             | (470) | 6.48            | (0.60)         | 3-1 3/16                         | (945)  |
| 5452   | 4-2 3/8              | (1279) | 1-8 33/64             | (521) | 7.18            | (0.67)         | 2-9 3/16                         | (843)  |
| 5456   | 4-2 3/8              | (1279) | 1-10 33/64            | (572) | 7.88            | (0.73)         | 2-5 3/16                         | (741)  |
| 5460 E | 4-2 3/8              | (1279) | 2-0 33/64             | (623) | 8.57            | (0.80)         | 2-1 3/16                         | (640)  |
| 5464 E | 4-2 3/8              | (1279) | 2-2 33/64             | (673) | 9.27            | (0.86)         | 1-9 3/16                         | (538)  |
| 5468 E | 4-2 3/8              | (1279) | 2-4 33/64             | (724) | 9.97            | (0.93)         | 1-5 3/16                         | (437)  |
| 5472 E | 4-2 3/8              | (1279) | 2-6 33/64             | (775) | 10.67           | (0.99)         | 1-1 3/16                         | (335)  |
| 5476 E | 4-2 3/8              | (1279) | 2-8 33/64             | (826) | 11.37           | (1.06)         | 0-9 3/16                         | (233)  |

## Egress and Vent Openings: IZ3

| CN   | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|      | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236 | 1-6 3/8              | (467) | 1-0 33/64             | (318) | 1.60            | (0.15)         | 4-1 3/16                         | (1249) |
| 2240 | 1-6 3/8              | (467) | 1-2 33/64             | (369) | 1.85            | (0.17)         | 3-9 3/16                         | (1148) |
| 2244 | 1-6 3/8              | (467) | 1-4 33/64             | (419) | 2.11            | (0.20)         | 3-5 3/16                         | (1046) |
| 2248 | 1-6 3/8              | (467) | 1-6 33/64             | (470) | 2.36            | (0.22)         | 3-1 3/16                         | (945)  |
| 2252 | 1-6 3/8              | (467) | 1-8 33/64             | (521) | 2.62            | (0.24)         | 2-9 3/16                         | (843)  |
| 2256 | 1-6 3/8              | (467) | 1-10 33/64            | (572) | 2.87            | (0.27)         | 2-5 3/16                         | (741)  |
| 2260 | 1-6 3/8              | (467) | 2-0 33/64             | (623) | 3.13            | (0.29)         | 2-1 3/16                         | (640)  |
| 2264 | 1-6 3/8              | (467) | 2-2 33/64             | (673) | 3.38            | (0.31)         | 1-9 3/16                         | (538)  |
| 2268 | 1-6 3/8              | (467) | 2-4 33/64             | (724) | 3.64            | (0.34)         | 1-5 3/16                         | (437)  |
| 2272 | 1-6 3/8              | (467) | 2-6 33/64             | (775) | 3.89            | (0.36)         | 1-1 3/16                         | (335)  |
| 2276 | 1-6 3/8              | (467) | 2-8 33/64             | (826) | 4.15            | (0.39)         | 0-9 3/16                         | (233)  |
| 2636 | 1-10 3/8             | (568) | 1-0 33/64             | (318) | 1.94            | (0.18)         | 4-1 3/16                         | (1249) |
| 2640 | 1-10 3/8             | (568) | 1-2 33/64             | (369) | 2.25            | (0.21)         | 3-9 3/16                         | (1148) |
| 2644 | 1-10 3/8             | (568) | 1-4 33/64             | (419) | 2.57            | (0.24)         | 3-5 3/16                         | (1046) |
| 2648 | 1-10 3/8             | (568) | 1-6 33/64             | (470) | 2.88            | (0.27)         | 3-1 3/16                         | (945)  |
| 2652 | 1-10 3/8             | (568) | 1-8 33/64             | (521) | 3.19            | (0.30)         | 2-9 3/16                         | (843)  |
| 2656 | 1-10 3/8             | (568) | 1-10 33/64            | (572) | 3.50            | (0.32)         | 2-5 3/16                         | (741)  |
| 2660 | 1-10 3/8             | (568) | 2-0 33/64             | (623) | 3.81            | (0.35)         | 2-1 3/16                         | (640)  |
| 2664 | 1-10 3/8             | (568) | 2-2 33/64             | (673) | 4.12            | (0.38)         | 1-9 3/16                         | (538)  |
| 2668 | 1-10 3/8             | (568) | 2-4 33/64             | (724) | 4.43            | (0.41)         | 1-5 3/16                         | (437)  |
| 2672 | 1-10 3/8             | (568) | 2-6 33/64             | (775) | 4.74            | (0.44)         | 1-1 3/16                         | (335)  |
| 2676 | 1-10 3/8             | (568) | 2-8 33/64             | (826) | 5.05            | (0.47)         | 0-9 3/16                         | (233)  |
| 3036 | 2-2 3/8              | (670) | 1-0 33/64             | (318) | 2.29            | (0.21)         | 4-1 3/16                         | (1249) |
| 3040 | 2-2 3/8              | (670) | 1-2 33/64             | (369) | 2.66            | (0.25)         | 3-9 3/16                         | (1148) |
| 3044 | 2-2 3/8              | (670) | 1-4 33/64             | (419) | 3.02            | (0.28)         | 3-5 3/16                         | (1046) |
| 3048 | 2-2 3/8              | (670) | 1-6 33/64             | (470) | 3.39            | (0.31)         | 3-1 3/16                         | (945)  |
| 3052 | 2-2 3/8              | (670) | 1-8 33/64             | (521) | 3.76            | (0.35)         | 2-9 3/16                         | (843)  |
| 3056 | 2-2 3/8              | (670) | 1-10 33/64            | (572) | 4.12            | (0.38)         | 2-5 3/16                         | (741)  |
| 3060 | 2-2 3/8              | (670) | 2-0 33/64             | (623) | 4.49            | (0.42)         | 2-1 3/16                         | (640)  |
| 3064 | 2-2 3/8              | (670) | 2-2 33/64             | (673) | 4.86            | (0.45)         | 1-9 3/16                         | (538)  |
| 3068 | 2-2 3/8              | (670) | 2-4 33/64             | (724) | 5.22            | (0.49)         | 1-5 3/16                         | (437)  |
| 3072 | 2-2 3/8              | (670) | 2-6 33/64             | (775) | 5.59            | (0.52)         | 1-1 3/16                         | (335)  |
| 3076 | 2-2 3/8              | (670) | 2-8 33/64             | (826) | 5.95            | (0.55)         | 0-9 3/16                         | (233)  |
| 3236 | 2-4 3/8              | (721) | 1-0 33/64             | (318) | 2.47            | (0.23)         | 4-1 3/16                         | (1249) |
| 3240 | 2-4 3/8              | (721) | 1-2 33/64             | (369) | 2.86            | (0.27)         | 3-9 3/16                         | (1148) |
| 3244 | 2-4 3/8              | (721) | 1-4 33/64             | (419) | 3.25            | (0.30)         | 3-5 3/16                         | (1046) |
| 3248 | 2-4 3/8              | (721) | 1-6 33/64             | (470) | 3.65            | (0.34)         | 3-1 3/16                         | (945)  |
| 3252 | 2-4 3/8              | (721) | 1-8 33/64             | (521) | 4.04            | (0.38)         | 2-9 3/16                         | (843)  |
| 3256 | 2-4 3/8              | (721) | 1-10 33/64            | (572) | 4.44            | (0.41)         | 2-5 3/16                         | (741)  |
| 3260 | 2-4 3/8              | (721) | 2-0 33/64             | (623) | 4.83            | (0.45)         | 2-1 3/16                         | (640)  |
| 3264 | 2-4 3/8              | (721) | 2-2 33/64             | (673) | 5.22            | (0.49)         | 1-9 3/16                         | (538)  |
| 3268 | 2-4 3/8              | (721) | 2-4 33/64             | (724) | 5.62            | (0.52)         | 1-5 3/16                         | (437)  |
| 3272 | 2-4 3/8              | (721) | 2-6 33/64             | (775) | 6.01            | (0.56)         | 1-1 3/16                         | (335)  |
| 3276 | 2-4 3/8              | (721) | 2-8 33/64             | (826) | 6.41            | (0.60)         | 0-9 3/16                         | (233)  |

## Egress and Vent Openings: IZ3

| CN   | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|      | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3436 | 2-6 3/8              | (771) | 1-0 33/64             | (318) | 2.64            | (0.25)         | 4-1 3/16                         | (1249) |
| 3440 | 2-6 3/8              | (771) | 1-2 33/64             | (369) | 3.06            | (0.28)         | 3-9 3/16                         | (1148) |
| 3444 | 2-6 3/8              | (771) | 1-4 33/64             | (419) | 3.48            | (0.32)         | 3-5 3/16                         | (1046) |
| 3448 | 2-6 3/8              | (771) | 1-6 33/64             | (470) | 3.90            | (0.36)         | 3-1 3/16                         | (945)  |
| 3452 | 2-6 3/8              | (771) | 1-8 33/64             | (521) | 4.33            | (0.40)         | 2-9 3/16                         | (843)  |
| 3456 | 2-6 3/8              | (771) | 1-10 33/64            | (572) | 4.75            | (0.44)         | 2-5 3/16                         | (741)  |
| 3460 | 2-6 3/8              | (771) | 2-0 33/64             | (623) | 5.17            | (0.48)         | 2-1 3/16                         | (640)  |
| 3464 | 2-6 3/8              | (771) | 2-2 33/64             | (673) | 5.59            | (0.52)         | 1-9 3/16                         | (538)  |
| 3468 | E 2-6 3/8            | (771) | 2-4 33/64             | (724) | 6.01            | (0.56)         | 1-5 3/16                         | (437)  |
| 3472 | E 2-6 3/8            | (771) | 2-6 33/64             | (775) | 6.44            | (0.60)         | 1-1 3/16                         | (335)  |
| 3476 | E 2-6 3/8            | (771) | 2-8 33/64             | (826) | 6.86            | (0.64)         | 0-9 3/16                         | (233)  |
| 3636 | 2-8 3/8              | (822) | 1-0 33/64             | (318) | 2.81            | (0.26)         | 4-1 3/16                         | (1249) |
| 3640 | 2-8 3/8              | (822) | 1-2 33/64             | (369) | 3.26            | (0.30)         | 3-9 3/16                         | (1148) |
| 3644 | 2-8 3/8              | (822) | 1-4 33/64             | (419) | 3.71            | (0.34)         | 3-5 3/16                         | (1046) |
| 3648 | 2-8 3/8              | (822) | 1-6 33/64             | (470) | 4.16            | (0.39)         | 3-1 3/16                         | (945)  |
| 3652 | 2-8 3/8              | (822) | 1-8 33/64             | (521) | 4.61            | (0.43)         | 2-9 3/16                         | (843)  |
| 3656 | 2-8 3/8              | (822) | 1-10 33/64            | (572) | 5.06            | (0.47)         | 2-5 3/16                         | (741)  |
| 3660 | 2-8 3/8              | (822) | 2-0 33/64             | (623) | 5.51            | (0.51)         | 2-1 3/16                         | (640)  |
| 3664 | E 2-8 3/8            | (822) | 2-2 33/64             | (673) | 5.96            | (0.55)         | 1-9 3/16                         | (538)  |
| 3668 | E 2-8 3/8            | (822) | 2-4 33/64             | (724) | 6.41            | (0.60)         | 1-5 3/16                         | (437)  |
| 3672 | E 2-8 3/8            | (822) | 2-6 33/64             | (775) | 6.86            | (0.64)         | 1-1 3/16                         | (335)  |
| 3676 | E 2-8 3/8            | (822) | 2-4 1/64              | (712) | 6.30            | (0.59)         | 0-9 3/16                         | (233)  |
| 3836 | 2-10 3/8             | (873) | 1-0 33/64             | (318) | 2.99            | (0.28)         | 4-1 3/16                         | (1249) |
| 3840 | 2-10 3/8             | (873) | 1-2 33/64             | (369) | 3.46            | (0.32)         | 3-9 3/16                         | (1148) |
| 3844 | 2-10 3/8             | (873) | 1-4 33/64             | (419) | 3.94            | (0.37)         | 3-5 3/16                         | (1046) |
| 3848 | 2-10 3/8             | (873) | 1-6 33/64             | (470) | 4.42            | (0.41)         | 3-1 3/16                         | (945)  |
| 3852 | 2-10 3/8             | (873) | 1-8 33/64             | (521) | 4.90            | (0.45)         | 2-9 3/16                         | (843)  |
| 3856 | 2-10 3/8             | (873) | 1-10 33/64            | (572) | 5.37            | (0.50)         | 2-5 3/16                         | (741)  |
| 3860 | E 2-10 3/8           | (873) | 2-0 33/64             | (623) | 5.85            | (0.54)         | 2-1 3/16                         | (640)  |
| 3864 | E 2-10 3/8           | (873) | 2-2 33/64             | (673) | 6.33            | (0.59)         | 1-9 3/16                         | (538)  |
| 3868 | E 2-10 3/8           | (873) | 2-4 33/64             | (724) | 6.81            | (0.63)         | 1-5 3/16                         | (437)  |
| 3872 | E 2-10 3/8           | (873) | 2-6 33/64             | (775) | 7.28            | (0.68)         | 1-1 3/16                         | (335)  |
| 3876 | E 2-10 3/8           | (873) | 2-4 1/64              | (712) | 6.69            | (0.62)         | 0-9 3/16                         | (233)  |
| 4236 | 3-2 3/8              | (975) | 1-0 33/64             | (318) | 3.33            | (0.31)         | 4-1 3/16                         | (1249) |
| 4240 | 3-2 3/8              | (975) | 1-2 33/64             | (369) | 3.87            | (0.36)         | 3-9 3/16                         | (1148) |
| 4244 | 3-2 3/8              | (975) | 1-4 33/64             | (419) | 4.40            | (0.41)         | 3-5 3/16                         | (1046) |
| 4248 | 3-2 3/8              | (975) | 1-6 33/64             | (470) | 4.93            | (0.46)         | 3-1 3/16                         | (945)  |
| 4252 | 3-2 3/8              | (975) | 1-8 33/64             | (521) | 5.47            | (0.51)         | 2-9 3/16                         | (843)  |
| 4256 | 3-2 3/8              | (975) | 1-10 33/64            | (572) | 6.00            | (0.56)         | 2-5 3/16                         | (741)  |
| 4260 | E 3-2 3/8            | (975) | 2-0 33/64             | (623) | 6.53            | (0.61)         | 2-1 3/16                         | (640)  |
| 4264 | E 3-2 3/8            | (975) | 2-2 33/64             | (673) | 7.06            | (0.66)         | 1-9 3/16                         | (538)  |
| 4268 | E 3-2 3/8            | (975) | 2-4 33/64             | (724) | 7.60            | (0.71)         | 1-5 3/16                         | (437)  |

# Egress and Vent Openings: Cottage Units Standard Product

| CN    | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236C | 1-6 3/8              | (467) | 0-10 3/32             | (256) | 1.29            | (0.12)         | 4-0 47/64                        | (1238) |
| 2240C | 1-6 3/8              | (467) | 0-11 45/64            | (297) | 1.49            | (0.14)         | 3-8 47/64                        | (1136) |
| 2244C | 1-6 3/8              | (467) | 1-1 5/16              | (338) | 1.70            | (0.16)         | 3-4 47/64                        | (1035) |
| 2248C | 1-6 3/8              | (467) | 1-2 59/64             | (379) | 1.90            | (0.18)         | 3-0 47/64                        | (933)  |
| 2252C | 1-6 3/8              | (467) | 1-4 17/32             | (420) | 2.11            | (0.20)         | 2-8 47/64                        | (831)  |
| 2256C | 1-6 3/8              | (467) | 1-6 9/64              | (461) | 2.31            | (0.22)         | 2-4 47/64                        | (730)  |
| 2260C | 1-6 3/8              | (467) | 1-7 3/4               | (502) | 2.52            | (0.23)         | 2-0 47/64                        | (628)  |
| 2264C | 1-6 3/8              | (467) | 1-9 23/64             | (543) | 2.73            | (0.25)         | 1-8 47/64                        | (527)  |
| 2268C | 1-6 3/8              | (467) | 1-10 31/32            | (583) | 2.93            | (0.27)         | 1-4 47/64                        | (425)  |
| 2636C | 1-10 3/8             | (568) | 0-10 3/32             | (256) | 1.57            | (0.15)         | 4-0 47/64                        | (1238) |
| 2640C | 1-10 3/8             | (568) | 0-11 45/64            | (297) | 1.82            | (0.17)         | 3-8 47/64                        | (1136) |
| 2644C | 1-10 3/8             | (568) | 1-1 5/16              | (338) | 2.07            | (0.19)         | 3-4 47/64                        | (1035) |
| 2648C | 1-10 3/8             | (568) | 1-2 59/64             | (379) | 2.32            | (0.22)         | 3-0 47/64                        | (933)  |
| 2652C | 1-10 3/8             | (568) | 1-4 17/32             | (420) | 2.57            | (0.24)         | 2-8 47/64                        | (831)  |
| 2656C | 1-10 3/8             | (568) | 1-6 9/64              | (461) | 2.82            | (0.26)         | 2-4 47/64                        | (730)  |
| 2660C | 1-10 3/8             | (568) | 1-7 3/4               | (502) | 3.07            | (0.29)         | 2-0 47/64                        | (628)  |
| 2664C | 1-10 3/8             | (568) | 1-9 23/64             | (543) | 3.32            | (0.31)         | 1-8 47/64                        | (527)  |
| 2668C | 1-10 3/8             | (568) | 1-10 31/32            | (583) | 3.57            | (0.33)         | 1-4 47/64                        | (425)  |
| 3036C | 2-2 3/8              | (670) | 0-10 3/32             | (256) | 1.85            | (0.17)         | 4-0 47/64                        | (1238) |
| 3040C | 2-2 3/8              | (670) | 0-11 45/64            | (297) | 2.14            | (0.20)         | 3-8 47/64                        | (1136) |
| 3044C | 2-2 3/8              | (670) | 1-1 5/16              | (338) | 2.44            | (0.23)         | 3-4 47/64                        | (1035) |
| 3048C | 2-2 3/8              | (670) | 1-2 59/64             | (379) | 2.73            | (0.25)         | 3-0 47/64                        | (933)  |
| 3052C | 2-2 3/8              | (670) | 1-4 17/32             | (420) | 3.03            | (0.28)         | 2-8 47/64                        | (831)  |
| 3056C | 2-2 3/8              | (670) | 1-6 9/64              | (461) | 3.32            | (0.31)         | 2-4 47/64                        | (730)  |
| 3060C | 2-2 3/8              | (670) | 1-7 3/4               | (502) | 3.62            | (0.34)         | 2-0 47/64                        | (628)  |
| 3064C | 2-2 3/8              | (670) | 1-9 23/64             | (543) | 3.91            | (0.36)         | 1-8 47/64                        | (527)  |
| 3068C | 2-2 3/8              | (670) | 1-10 31/32            | (583) | 4.21            | (0.39)         | 1-4 47/64                        | (425)  |
| 3236C | 2-4 3/8              | (721) | 0-10 3/32             | (256) | 1.99            | (0.18)         | 4-0 47/64                        | (1238) |
| 3240C | 2-4 3/8              | (721) | 0-11 45/64            | (297) | 2.31            | (0.21)         | 3-8 47/64                        | (1136) |
| 3244C | 2-4 3/8              | (721) | 1-1 5/16              | (338) | 2.62            | (0.24)         | 3-4 47/64                        | (1035) |
| 3248C | 2-4 3/8              | (721) | 1-2 59/64             | (379) | 2.94            | (0.27)         | 3-0 47/64                        | (933)  |
| 3252C | 2-4 3/8              | (721) | 1-4 17/32             | (420) | 3.26            | (0.30)         | 2-8 47/64                        | (831)  |
| 3256C | 2-4 3/8              | (721) | 1-6 9/64              | (461) | 3.57            | (0.33)         | 2-4 47/64                        | (730)  |
| 3260C | 2-4 3/8              | (721) | 1-7 3/4               | (502) | 3.89            | (0.36)         | 2-0 47/64                        | (628)  |
| 3264C | 2-4 3/8              | (721) | 1-9 23/64             | (543) | 4.21            | (0.39)         | 1-8 47/64                        | (527)  |
| 3268C | 2-4 3/8              | (721) | 1-10 31/32            | (583) | 4.53            | (0.42)         | 1-4 47/64                        | (425)  |
| 3436C | 2-6 3/8              | (771) | 0-10 3/32             | (256) | 2.13            | (0.20)         | 4-0 47/64                        | (1238) |
| 3440C | 2-6 3/8              | (771) | 0-11 45/64            | (297) | 2.47            | (0.23)         | 3-8 47/64                        | (1136) |
| 3444C | 2-6 3/8              | (771) | 1-1 5/16              | (338) | 2.81            | (0.26)         | 3-4 47/64                        | (1035) |
| 3448C | 2-6 3/8              | (771) | 1-2 59/64             | (379) | 3.15            | (0.29)         | 3-0 47/64                        | (933)  |
| 3452C | 2-6 3/8              | (771) | 1-4 17/32             | (420) | 3.49            | (0.32)         | 2-8 47/64                        | (831)  |
| 3456C | 2-6 3/8              | (771) | 1-6 9/64              | (461) | 3.83            | (0.36)         | 2-4 47/64                        | (730)  |
| 3460C | 2-6 3/8              | (771) | 1-7 3/4               | (502) | 4.17            | (0.39)         | 2-0 47/64                        | (628)  |
| 3464C | 2-6 3/8              | (771) | 1-9 23/64             | (543) | 4.51            | (0.42)         | 1-8 47/64                        | (527)  |
| 3468C | 2-6 3/8              | (771) | 1-10 31/32            | (583) | 4.84            | (0.45)         | 1-4 47/64                        | (425)  |
| 3636C | 2-8 3/8              | (822) | 0-10 3/32             | (256) | 2.27            | (0.21)         | 4-0 47/64                        | (1238) |
| 3640C | 2-8 3/8              | (822) | 0-11 45/64            | (297) | 2.63            | (0.24)         | 3-8 47/64                        | (1136) |
| 3644C | 2-8 3/8              | (822) | 1-1 5/16              | (338) | 2.99            | (0.28)         | 3-4 47/64                        | (1035) |
| 3648C | 2-8 3/8              | (822) | 1-2 59/64             | (379) | 3.35            | (0.31)         | 3-0 47/64                        | (933)  |
| 3652C | 2-8 3/8              | (822) | 1-4 17/32             | (420) | 3.72            | (0.35)         | 2-8 47/64                        | (831)  |
| 3656C | 2-8 3/8              | (822) | 1-6 9/64              | (461) | 4.08            | (0.38)         | 2-4 47/64                        | (730)  |
| 3660C | 2-8 3/8              | (822) | 1-7 3/4               | (502) | 4.44            | (0.41)         | 2-0 47/64                        | (628)  |
| 3664C | 2-8 3/8              | (822) | 1-9 23/64             | (543) | 4.80            | (0.45)         | 1-8 47/64                        | (527)  |
| 3668C | 2-8 3/8              | (822) | 1-10 31/32            | (583) | 5.16            | (0.48)         | 1-4 47/64                        | (425)  |

# Egress and Vent Openings: Cottage Units Standard Product

| CN    | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3836C | 2-10 3/8             | (873)  | 0-10 3/32             | (256) | 2.41            | (0.22)         | 4-0 47/64                        | (1238) |
| 3840C | 2-10 3/8             | (873)  | 0-11 45/64            | (297) | 2.79            | (0.26)         | 3-8 47/64                        | (1136) |
| 3844C | 2-10 3/8             | (873)  | 1-1 5/16              | (338) | 3.18            | (0.30)         | 3-4 47/64                        | (1035) |
| 3848C | 2-10 3/8             | (873)  | 1-2 59/64             | (379) | 3.56            | (0.33)         | 3-0 47/64                        | (933)  |
| 3852C | 2-10 3/8             | (873)  | 1-4 17/32             | (420) | 3.95            | (0.37)         | 2-8 47/64                        | (831)  |
| 3856C | 2-10 3/8             | (873)  | 1-6 9/64              | (461) | 4.33            | (0.40)         | 2-4 47/64                        | (730)  |
| 3860C | 2-10 3/8             | (873)  | 1-7 3/4               | (502) | 4.71            | (0.44)         | 2-0 47/64                        | (628)  |
| 3864C | 2-10 3/8             | (873)  | 1-9 23/64             | (543) | 5.10            | (0.47)         | 1-8 47/64                        | (527)  |
| 3868C | 2-10 3/8             | (873)  | 1-10 31/32            | (583) | 5.48            | (0.51)         | 1-4 47/64                        | (425)  |
| 4236C | 3-2 3/8              | (975)  | 0-10 3/32             | (256) | 2.69            | (0.25)         | 4-0 47/64                        | (1238) |
| 4240C | 3-2 3/8              | (975)  | 0-11 45/64            | (297) | 3.12            | (0.29)         | 3-8 47/64                        | (1136) |
| 4244C | 3-2 3/8              | (975)  | 1-1 5/16              | (338) | 3.55            | (0.33)         | 3-4 47/64                        | (1035) |
| 4248C | 3-2 3/8              | (975)  | 1-2 59/64             | (379) | 3.98            | (0.37)         | 3-0 47/64                        | (933)  |
| 4252C | 3-2 3/8              | (975)  | 1-4 17/32             | (420) | 4.41            | (0.41)         | 2-8 47/64                        | (831)  |
| 4256C | 3-2 3/8              | (975)  | 1-6 9/64              | (461) | 4.83            | (0.45)         | 2-4 47/64                        | (730)  |
| 4260C | 3-2 3/8              | (975)  | 1-7 3/4               | (502) | 5.26            | (0.49)         | 2-0 47/64                        | (628)  |
| 4264C | 3-2 3/8              | (975)  | 1-9 23/64             | (543) | 5.69            | (0.53)         | 1-8 47/64                        | (527)  |
| 4268C | 3-2 3/8              | (975)  | 1-10 31/32            | (583) | 6.12            | (0.57)         | 1-4 47/64                        | (425)  |
| 4836C | 3-8 3/8              | (1127) | 0-10 3/32             | (256) | 3.11            | (0.29)         | 4-0 47/64                        | (1238) |
| 4840C | 3-8 3/8              | (1127) | 0-11 45/64            | (297) | 3.61            | (0.33)         | 3-8 47/64                        | (1136) |
| 4844C | 3-8 3/8              | (1127) | 1-1 5/16              | (338) | 4.10            | (0.38)         | 3-4 47/64                        | (1035) |
| 4848C | 3-8 3/8              | (1127) | 1-2 59/64             | (379) | 4.60            | (0.43)         | 3-0 47/64                        | (933)  |
| 4852C | 3-8 3/8              | (1127) | 1-4 17/32             | (420) | 5.09            | (0.47)         | 2-8 47/64                        | (831)  |
| 4856C | 3-8 3/8              | (1127) | 1-6 9/64              | (461) | 5.59            | (0.52)         | 2-4 47/64                        | (730)  |
| 4860C | 3-8 3/8              | (1127) | 1-7 3/4               | (502) | 6.09            | (0.57)         | 2-0 47/64                        | (628)  |
| 4864C | 3-8 3/8              | (1127) | 1-9 23/64             | (543) | 6.58            | (0.61)         | 1-8 47/64                        | (527)  |
| 4868C | 3-8 3/8              | (1127) | 1-10 31/32            | (583) | 7.08            | (0.66)         | 1-4 47/64                        | (425)  |
| 5436C | 4-2 3/8              | (1279) | 0-10 3/32             | (256) | 3.53            | (0.33)         | 4-0 47/64                        | (1238) |
| 5440C | 4-2 3/8              | (1279) | 0-11 45/64            | (297) | 4.09            | (0.38)         | 3-8 47/64                        | (1136) |
| 5444C | 4-2 3/8              | (1279) | 1-1 5/16              | (338) | 4.66            | (0.43)         | 3-4 47/64                        | (1035) |
| 5448C | 4-2 3/8              | (1279) | 1-2 59/64             | (379) | 5.22            | (0.48)         | 3-0 47/64                        | (933)  |
| 5452C | 4-2 3/8              | (1279) | 1-4 17/32             | (420) | 5.78            | (0.54)         | 2-8 47/64                        | (831)  |
| 5456C | 4-2 3/8              | (1279) | 1-6 9/64              | (461) | 6.35            | (0.59)         | 2-4 47/64                        | (730)  |
| 5460C | 4-2 3/8              | (1279) | 1-7 3/4               | (502) | 6.91            | (0.64)         | 2-0 47/64                        | (628)  |
| 5464C | 4-2 3/8              | (1279) | 1-9 23/64             | (543) | 7.47            | (0.69)         | 1-8 47/64                        | (527)  |
| 5468C | 4-2 3/8              | (1279) | 1-10 31/32            | (583) | 8.04            | (0.75)         | 1-4 47/64                        | (425)  |

## Egress and Vent Openings: Cottage Units High-Performance

| CN    | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236C | 1-6 3/8              | (467) | 0-9 41/64             | (245) | 1.23            | (0.11)         | 4-1 3/16                         | (1249) |
| 2240C | 1-6 3/8              | (467) | 0-11 1/4              | (286) | 1.43            | (0.13)         | 3-9 3/16                         | (1148) |
| 2244C | 1-6 3/8              | (467) | 1-0 55/64             | (326) | 1.64            | (0.15)         | 3-5 3/16                         | (1046) |
| 2248C | 1-6 3/8              | (467) | 1-2 15/32             | (367) | 1.85            | (0.17)         | 3-1 3/16                         | (945)  |
| 2252C | 1-6 3/8              | (467) | 1-4 5/64              | (408) | 2.05            | (0.19)         | 2-9 3/16                         | (843)  |
| 2256C | 1-6 3/8              | (467) | 1-5 11/16             | (449) | 2.26            | (0.21)         | 2-5 3/16                         | (741)  |
| 2260C | 1-6 3/8              | (467) | 1-7 19/64             | (490) | 2.46            | (0.23)         | 2-1 3/16                         | (640)  |
| 2264C | 1-6 3/8              | (467) | 1-8 29/32             | (531) | 2.67            | (0.25)         | 1-9 3/16                         | (538)  |
| 2268C | 1-6 3/8              | (467) | 1-10 33/64            | (572) | 2.87            | (0.27)         | 1-5 3/16                         | (437)  |
| 2636C | 1-10 3/8             | (568) | 0-9 41/64             | (245) | 1.50            | (0.14)         | 4-1 3/16                         | (1249) |
| 2640C | 1-10 3/8             | (568) | 0-11 1/4              | (286) | 1.75            | (0.16)         | 3-9 3/16                         | (1148) |
| 2644C | 1-10 3/8             | (568) | 1-0 55/64             | (326) | 2.00            | (0.19)         | 3-5 3/16                         | (1046) |
| 2648C | 1-10 3/8             | (568) | 1-2 15/32             | (367) | 2.25            | (0.21)         | 3-1 3/16                         | (945)  |
| 2652C | 1-10 3/8             | (568) | 1-4 5/64              | (408) | 2.50            | (0.23)         | 2-9 3/16                         | (843)  |
| 2656C | 1-10 3/8             | (568) | 1-5 11/16             | (449) | 2.75            | (0.26)         | 2-5 3/16                         | (741)  |
| 2660C | 1-10 3/8             | (568) | 1-7 19/64             | (490) | 3.00            | (0.28)         | 2-1 3/16                         | (640)  |
| 2664C | 1-10 3/8             | (568) | 1-8 29/32             | (531) | 3.25            | (0.30)         | 1-9 3/16                         | (538)  |
| 2668C | 1-10 3/8             | (568) | 1-10 33/64            | (572) | 3.50            | (0.32)         | 1-5 3/16                         | (437)  |
| 3036C | 2-2 3/8              | (670) | 0-9 41/64             | (245) | 1.76            | (0.16)         | 4-1 3/16                         | (1249) |
| 3040C | 2-2 3/8              | (670) | 0-11 1/4              | (286) | 2.06            | (0.19)         | 3-9 3/16                         | (1148) |
| 3044C | 2-2 3/8              | (670) | 1-0 55/64             | (326) | 2.35            | (0.22)         | 3-5 3/16                         | (1046) |
| 3048C | 2-2 3/8              | (670) | 1-2 15/32             | (367) | 2.65            | (0.25)         | 3-1 3/16                         | (945)  |
| 3052C | 2-2 3/8              | (670) | 1-4 5/64              | (408) | 2.94            | (0.27)         | 2-9 3/16                         | (843)  |
| 3056C | 2-2 3/8              | (670) | 1-5 11/16             | (449) | 3.24            | (0.30)         | 2-5 3/16                         | (741)  |
| 3060C | 2-2 3/8              | (670) | 1-7 19/64             | (490) | 3.53            | (0.33)         | 2-1 3/16                         | (640)  |
| 3064C | 2-2 3/8              | (670) | 1-8 29/32             | (531) | 3.83            | (0.36)         | 1-9 3/16                         | (538)  |
| 3068C | 2-2 3/8              | (670) | 1-10 33/64            | (572) | 4.12            | (0.38)         | 1-5 3/16                         | (437)  |
| 3236C | 2-4 3/8              | (721) | 0-9 41/64             | (245) | 1.90            | (0.18)         | 4-1 3/16                         | (1249) |
| 3240C | 2-4 3/8              | (721) | 0-11 1/4              | (286) | 2.22            | (0.21)         | 3-9 3/16                         | (1148) |
| 3244C | 2-4 3/8              | (721) | 1-0 55/64             | (326) | 2.53            | (0.24)         | 3-5 3/16                         | (1046) |
| 3248C | 2-4 3/8              | (721) | 1-2 15/32             | (367) | 2.85            | (0.26)         | 3-1 3/16                         | (945)  |
| 3252C | 2-4 3/8              | (721) | 1-4 5/64              | (408) | 3.17            | (0.29)         | 2-9 3/16                         | (843)  |
| 3256C | 2-4 3/8              | (721) | 1-5 11/16             | (449) | 3.48            | (0.32)         | 2-5 3/16                         | (741)  |
| 3260C | 2-4 3/8              | (721) | 1-7 19/64             | (490) | 3.80            | (0.35)         | 2-1 3/16                         | (640)  |
| 3264C | 2-4 3/8              | (721) | 1-8 29/32             | (531) | 4.12            | (0.38)         | 1-9 3/16                         | (538)  |
| 3268C | 2-4 3/8              | (721) | 1-10 33/64            | (572) | 4.44            | (0.41)         | 1-5 3/16                         | (437)  |
| 3436C | 2-6 3/8              | (771) | 0-9 41/64             | (245) | 2.03            | (0.19)         | 4-1 3/16                         | (1249) |
| 3440C | 2-6 3/8              | (771) | 0-11 1/4              | (286) | 2.37            | (0.22)         | 3-9 3/16                         | (1148) |
| 3444C | 2-6 3/8              | (771) | 1-0 55/64             | (326) | 2.71            | (0.25)         | 3-5 3/16                         | (1046) |
| 3448C | 2-6 3/8              | (771) | 1-2 15/32             | (367) | 3.05            | (0.28)         | 3-1 3/16                         | (945)  |
| 3452C | 2-6 3/8              | (771) | 1-4 5/64              | (408) | 3.39            | (0.31)         | 2-9 3/16                         | (843)  |
| 3456C | 2-6 3/8              | (771) | 1-5 11/16             | (449) | 3.73            | (0.35)         | 2-5 3/16                         | (741)  |
| 3460C | 2-6 3/8              | (771) | 1-7 19/64             | (490) | 4.07            | (0.38)         | 2-1 3/16                         | (640)  |
| 3464C | 2-6 3/8              | (771) | 1-8 29/32             | (531) | 4.41            | (0.41)         | 1-9 3/16                         | (538)  |
| 3468C | 2-6 3/8              | (771) | 1-10 33/64            | (572) | 4.75            | (0.44)         | 1-5 3/16                         | (437)  |

## Egress and Vent Openings: Cottage Units High-Performance

| CN    | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3636C | 2-8 3/8              | (822)  | 0-9 41/64             | (245) | 2.17            | (0.20)         | 4-1 3/16                         | (1249) |
| 3640C | 2-8 3/8              | (822)  | 0-11 1/4              | (286) | 2.53            | (0.23)         | 3-9 3/16                         | (1148) |
| 3644C | 2-8 3/8              | (822)  | 1-0 55/64             | (326) | 2.89            | (0.27)         | 3-5 3/16                         | (1046) |
| 3648C | 2-8 3/8              | (822)  | 1-2 15/32             | (367) | 3.25            | (0.30)         | 3-1 3/16                         | (945)  |
| 3652C | 2-8 3/8              | (822)  | 1-4 5/64              | (408) | 3.61            | (0.34)         | 2-9 3/16                         | (843)  |
| 3656C | 2-8 3/8              | (822)  | 1-5 11/16             | (449) | 3.98            | (0.37)         | 2-5 3/16                         | (741)  |
| 3660C | 2-8 3/8              | (822)  | 1-7 19/64             | (490) | 4.34            | (0.40)         | 2-1 3/16                         | (640)  |
| 3664C | 2-8 3/8              | (822)  | 1-8 29/32             | (531) | 4.70            | (0.44)         | 1-9 3/16                         | (538)  |
| 3668C | 2-8 3/8              | (822)  | 1-10 33/64            | (572) | 5.06            | (0.47)         | 1-5 3/16                         | (437)  |
| 3836C | 2-10 3/8             | (873)  | 0-9 41/64             | (245) | 2.30            | (0.21)         | 4-1 3/16                         | (1249) |
| 3840C | 2-10 3/8             | (873)  | 0-11 1/4              | (286) | 2.68            | (0.25)         | 3-9 3/16                         | (1148) |
| 3844C | 2-10 3/8             | (873)  | 1-0 55/64             | (326) | 3.07            | (0.29)         | 3-5 3/16                         | (1046) |
| 3848C | 2-10 3/8             | (873)  | 1-2 15/32             | (367) | 3.45            | (0.32)         | 3-1 3/16                         | (945)  |
| 3852C | 2-10 3/8             | (873)  | 1-4 5/64              | (408) | 3.84            | (0.36)         | 2-9 3/16                         | (843)  |
| 3856C | 2-10 3/8             | (873)  | 1-5 11/16             | (449) | 4.22            | (0.39)         | 2-5 3/16                         | (741)  |
| 3860C | 2-10 3/8             | (873)  | 1-7 19/64             | (490) | 4.61            | (0.43)         | 2-1 3/16                         | (640)  |
| 3864C | 2-10 3/8             | (873)  | 1-8 29/32             | (531) | 4.99            | (0.46)         | 1-9 3/16                         | (538)  |
| 3868C | 2-10 3/8             | (873)  | 1-10 33/64            | (572) | 5.37            | (0.50)         | 1-5 3/16                         | (437)  |
| 4236C | 3-2 3/8              | (975)  | 0-9 41/64             | (245) | 2.57            | (0.24)         | 4-1 3/16                         | (1249) |
| 4240C | 3-2 3/8              | (975)  | 0-11 1/4              | (286) | 3.00            | (0.28)         | 3-9 3/16                         | (1148) |
| 4244C | 3-2 3/8              | (975)  | 1-0 55/64             | (326) | 3.42            | (0.32)         | 3-5 3/16                         | (1046) |
| 4248C | 3-2 3/8              | (975)  | 1-2 15/32             | (367) | 3.85            | (0.36)         | 3-1 3/16                         | (945)  |
| 4252C | 3-2 3/8              | (975)  | 1-4 5/64              | (408) | 4.28            | (0.40)         | 2-9 3/16                         | (843)  |
| 4256C | 3-2 3/8              | (975)  | 1-5 11/16             | (449) | 4.71            | (0.44)         | 2-5 3/16                         | (741)  |
| 4260C | 3-2 3/8              | (975)  | 1-7 19/64             | (490) | 5.14            | (0.48)         | 2-1 3/16                         | (640)  |
| 4264C | 3-2 3/8              | (975)  | 1-8 29/32             | (531) | 5.57            | (0.52)         | 1-9 3/16                         | (538)  |
| 4268C | 3-2 3/8              | (975)  | 1-10 33/64            | (572) | 6.00            | (0.56)         | 1-5 3/16                         | (437)  |
| 4836C | 3-8 3/8              | (1127) | 0-9 41/64             | (245) | 2.97            | (0.28)         | 4-1 3/16                         | (1249) |
| 4840C | 3-8 3/8              | (1127) | 0-11 1/4              | (286) | 3.46            | (0.32)         | 3-9 3/16                         | (1148) |
| 4844C | 3-8 3/8              | (1127) | 1-0 55/64             | (326) | 3.96            | (0.37)         | 3-5 3/16                         | (1046) |
| 4848C | 3-8 3/8              | (1127) | 1-2 15/32             | (367) | 4.46            | (0.41)         | 3-1 3/16                         | (945)  |
| 4852C | 3-8 3/8              | (1127) | 1-4 5/64              | (408) | 4.95            | (0.46)         | 2-9 3/16                         | (843)  |
| 4856C | 3-8 3/8              | (1127) | 1-5 11/16             | (449) | 5.45            | (0.51)         | 2-5 3/16                         | (741)  |
| 4860C | 3-8 3/8              | (1127) | 1-7 19/64             | (490) | 5.94            | (0.55)         | 2-1 3/16                         | (640)  |
| 4864C | 3-8 3/8              | (1127) | 1-8 29/32             | (531) | 6.44            | (0.60)         | 1-9 3/16                         | (538)  |
| 4868C | 3-8 3/8              | (1127) | 1-10 33/64            | (572) | 6.94            | (0.64)         | 1-5 3/16                         | (437)  |
| 5436C | 4-2 3/8              | (1279) | 0-9 41/64             | (245) | 3.37            | (0.31)         | 4-1 3/16                         | (1249) |
| 5440C | 4-2 3/8              | (1279) | 0-11 1/4              | (286) | 3.93            | (0.37)         | 3-9 3/16                         | (1148) |
| 5444C | 4-2 3/8              | (1279) | 1-0 55/64             | (326) | 4.50            | (0.42)         | 3-5 3/16                         | (1046) |
| 5448C | 4-2 3/8              | (1279) | 1-2 15/32             | (367) | 5.06            | (0.47)         | 3-1 3/16                         | (945)  |
| 5452C | 4-2 3/8              | (1279) | 1-4 5/64              | (408) | 5.62            | (0.52)         | 2-9 3/16                         | (843)  |
| 5456C | 4-2 3/8              | (1279) | 1-5 11/16             | (449) | 6.19            | (0.57)         | 2-5 3/16                         | (741)  |
| 5460C | 4-2 3/8              | (1279) | 1-7 19/64             | (490) | 6.75            | (0.63)         | 2-1 3/16                         | (640)  |
| 5464C | 4-2 3/8              | (1279) | 1-8 29/32             | (531) | 7.31            | (0.68)         | 1-9 3/16                         | (538)  |
| 5468C | 4-2 3/8              | (1279) | 1-10 33/64            | (572) | 7.87            | (0.73)         | 1-5 3/16                         | (437)  |

# Egress and Vent Openings: Cottage Units IZ3

| CN    | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2244C | 1-6 3/8              | (467) | 1-0 55/64             | (326) | 1.64            | (0.15)         | 3-5 3/16                         | (1046) |
| 2248C | 1-6 3/8              | (467) | 1-2 15/32             | (367) | 1.85            | (0.17)         | 3-1 3/16                         | (945)  |
| 2252C | 1-6 3/8              | (467) | 1-4 5/64              | (408) | 2.05            | (0.19)         | 2-9 3/16                         | (843)  |
| 2256C | 1-6 3/8              | (467) | 1-5 11/16             | (449) | 2.26            | (0.21)         | 2-5 3/16                         | (741)  |
| 2260C | 1-6 3/8              | (467) | 1-7 19/64             | (490) | 2.46            | (0.23)         | 2-1 3/16                         | (640)  |
| 2264C | 1-6 3/8              | (467) | 1-8 29/32             | (531) | 2.67            | (0.25)         | 1-9 3/16                         | (538)  |
| 2268C | 1-6 3/8              | (467) | 1-10 33/64            | (572) | 2.87            | (0.27)         | 1-5 3/16                         | (437)  |
| 2644C | 1-10 3/8             | (568) | 1-0 55/64             | (326) | 2.00            | (0.19)         | 3-5 3/16                         | (1046) |
| 2648C | 1-10 3/8             | (568) | 1-2 15/32             | (367) | 2.25            | (0.21)         | 3-1 3/16                         | (945)  |
| 2652C | 1-10 3/8             | (568) | 1-4 5/64              | (408) | 2.50            | (0.23)         | 2-9 3/16                         | (843)  |
| 2656C | 1-10 3/8             | (568) | 1-5 11/16             | (449) | 2.75            | (0.26)         | 2-5 3/16                         | (741)  |
| 2660C | 1-10 3/8             | (568) | 1-7 19/64             | (490) | 3.00            | (0.28)         | 2-1 3/16                         | (640)  |
| 2664C | 1-10 3/8             | (568) | 1-8 29/32             | (531) | 3.25            | (0.30)         | 1-9 3/16                         | (538)  |
| 2668C | 1-10 3/8             | (568) | 1-10 33/64            | (572) | 3.50            | (0.32)         | 1-5 3/16                         | (437)  |
| 3044C | 2-2 3/8              | (670) | 1-0 55/64             | (326) | 2.35            | (0.22)         | 3-5 3/16                         | (1046) |
| 3048C | 2-2 3/8              | (670) | 1-2 15/32             | (367) | 2.65            | (0.25)         | 3-1 3/16                         | (945)  |
| 3052C | 2-2 3/8              | (670) | 1-4 5/64              | (408) | 2.94            | (0.27)         | 2-9 3/16                         | (843)  |
| 3056C | 2-2 3/8              | (670) | 1-5 11/16             | (449) | 3.24            | (0.30)         | 2-5 3/16                         | (741)  |
| 3060C | 2-2 3/8              | (670) | 1-7 19/64             | (490) | 3.53            | (0.33)         | 2-1 3/16                         | (640)  |
| 3064C | 2-2 3/8              | (670) | 1-8 29/32             | (531) | 3.83            | (0.36)         | 1-9 3/16                         | (538)  |
| 3068C | 2-2 3/8              | (670) | 1-10 33/64            | (572) | 4.12            | (0.38)         | 1-5 3/16                         | (437)  |
| 3244C | 2-4 3/8              | (721) | 1-0 55/64             | (326) | 2.53            | (0.24)         | 3-5 3/16                         | (1046) |
| 3248C | 2-4 3/8              | (721) | 1-2 15/32             | (367) | 2.85            | (0.26)         | 3-1 3/16                         | (945)  |
| 3252C | 2-4 3/8              | (721) | 1-4 5/64              | (408) | 3.17            | (0.29)         | 2-9 3/16                         | (843)  |
| 3256C | 2-4 3/8              | (721) | 1-5 11/16             | (449) | 3.48            | (0.32)         | 2-5 3/16                         | (741)  |
| 3260C | 2-4 3/8              | (721) | 1-7 19/64             | (490) | 3.80            | (0.35)         | 2-1 3/16                         | (640)  |
| 3264C | 2-4 3/8              | (721) | 1-8 29/32             | (531) | 4.12            | (0.38)         | 1-9 3/16                         | (538)  |
| 3268C | 2-4 3/8              | (721) | 1-10 33/64            | (572) | 4.44            | (0.41)         | 1-5 3/16                         | (437)  |
| 3444C | 2-6 3/8              | (771) | 1-0 55/64             | (326) | 2.71            | (0.25)         | 3-5 3/16                         | (1046) |
| 3448C | 2-6 3/8              | (771) | 1-2 15/32             | (367) | 3.05            | (0.28)         | 3-1 3/16                         | (945)  |
| 3452C | 2-6 3/8              | (771) | 1-4 5/64              | (408) | 3.39            | (0.31)         | 2-9 3/16                         | (843)  |
| 3456C | 2-6 3/8              | (771) | 1-5 11/16             | (449) | 3.73            | (0.35)         | 2-5 3/16                         | (741)  |
| 3460C | 2-6 3/8              | (771) | 1-7 19/64             | (490) | 4.07            | (0.38)         | 2-1 3/16                         | (640)  |
| 3464C | 2-6 3/8              | (771) | 1-8 29/32             | (531) | 4.41            | (0.41)         | 1-9 3/16                         | (538)  |
| 3468C | 2-6 3/8              | (771) | 1-10 33/64            | (572) | 4.75            | (0.44)         | 1-5 3/16                         | (437)  |
| 3644C | 2-8 3/8              | (822) | 1-0 55/64             | (326) | 2.89            | (0.27)         | 3-5 3/16                         | (1046) |
| 3648C | 2-8 3/8              | (822) | 1-2 15/32             | (367) | 3.25            | (0.30)         | 3-1 3/16                         | (945)  |
| 3652C | 2-8 3/8              | (822) | 1-4 5/64              | (408) | 3.61            | (0.34)         | 2-9 3/16                         | (843)  |
| 3656C | 2-8 3/8              | (822) | 1-5 11/16             | (449) | 3.98            | (0.37)         | 2-5 3/16                         | (741)  |
| 3660C | 2-8 3/8              | (822) | 1-7 19/64             | (490) | 4.34            | (0.40)         | 2-1 3/16                         | (640)  |
| 3664C | 2-8 3/8              | (822) | 1-8 29/32             | (531) | 4.70            | (0.44)         | 1-9 3/16                         | (538)  |
| 3668C | 2-8 3/8              | (822) | 1-10 33/64            | (572) | 5.06            | (0.47)         | 1-5 3/16                         | (437)  |

## Egress and Vent Openings: Cottage Units IZ3

| CN    | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|-------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|       | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3844C | 2-10 3/8             | (873) | 1-0 55/64             | (326) | 3.07            | (0.29)         | 3-5 3/16                         | (1046) |
| 3848C | 2-10 3/8             | (873) | 1-2 15/32             | (367) | 3.45            | (0.32)         | 3-1 3/16                         | (945)  |
| 3852C | 2-10 3/8             | (873) | 1-4 5/64              | (408) | 3.84            | (0.36)         | 2-9 3/16                         | (843)  |
| 3856C | 2-10 3/8             | (873) | 1-5 11/16             | (449) | 4.22            | (0.39)         | 2-5 3/16                         | (741)  |
| 3860C | 2-10 3/8             | (873) | 1-7 19/64             | (490) | 4.61            | (0.43)         | 2-1 3/16                         | (640)  |
| 3864C | 2-10 3/8             | (873) | 1-8 29/32             | (531) | 4.99            | (0.46)         | 1-9 3/16                         | (538)  |
| 3868C | 2-10 3/8             | (873) | 1-10 33/64            | (572) | 5.37            | (0.50)         | 1-5 3/16                         | (437)  |
| 4244C | 3-2 3/8              | (975) | 1-0 55/64             | (326) | 3.42            | (0.32)         | 3-5 3/16                         | (1046) |
| 4248C | 3-2 3/8              | (975) | 1-2 15/32             | (367) | 3.85            | (0.36)         | 3-1 3/16                         | (945)  |
| 4252C | 3-2 3/8              | (975) | 1-4 5/64              | (408) | 4.28            | (0.40)         | 2-9 3/16                         | (843)  |
| 4256C | 3-2 3/8              | (975) | 1-5 11/16             | (449) | 4.71            | (0.44)         | 2-5 3/16                         | (741)  |
| 4260C | 3-2 3/8              | (975) | 1-7 19/64             | (490) | 5.14            | (0.48)         | 2-1 3/16                         | (640)  |
| 4264C | 3-2 3/8              | (975) | 1-8 29/32             | (531) | 5.57            | (0.52)         | 1-9 3/16                         | (538)  |

# Egress and Vent Openings: Reverse Cottage Units Standard Product

| CN     | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236RC | 1-6 3/8              | (467) | 0-6 1/32              | (153) | 0.77            | (0.07)         | 4-0 47/64                        | (1238) |
| 2240RC | 1-6 3/8              | (467) | 0-8 27/64             | (214) | 1.08            | (0.10)         | 3-8 47/64                        | (1136) |
| 2244RC | 1-6 3/8              | (467) | 0-10 13/16            | (275) | 1.38            | (0.13)         | 3-4 47/64                        | (1035) |
| 2248RC | 1-6 3/8              | (467) | 1-1 13/64             | (336) | 1.69            | (0.16)         | 3-0 47/64                        | (933)  |
| 2252RC | 1-6 3/8              | (467) | 1-3 19/32             | (396) | 1.99            | (0.18)         | 2-8 47/64                        | (831)  |
| 2256RC | 1-6 3/8              | (467) | 1-3 11/32             | (390) | 1.96            | (0.18)         | 2-4 47/64                        | (730)  |
| 2260RC | 1-6 3/8              | (467) | 1-5 47/64             | (451) | 2.26            | (0.21)         | 2-0 47/64                        | (628)  |
| 2264RC | 1-6 3/8              | (467) | 1-8 1/8               | (511) | 2.57            | (0.24)         | 1-8 47/64                        | (527)  |
| 2268RC | 1-6 3/8              | (467) | 1-10 33/64            | (572) | 2.87            | (0.27)         | 1-4 47/64                        | (425)  |
| 2636RC | 1-10 3/8             | (568) | 0-6 1/32              | (153) | 0.94            | (0.09)         | 4-0 47/64                        | (1238) |
| 2640RC | 1-10 3/8             | (568) | 0-8 27/64             | (214) | 1.31            | (0.12)         | 3-8 47/64                        | (1136) |
| 2644RC | 1-10 3/8             | (568) | 0-10 13/16            | (275) | 1.68            | (0.16)         | 3-4 47/64                        | (1035) |
| 2648RC | 1-10 3/8             | (568) | 1-1 13/64             | (336) | 2.05            | (0.19)         | 3-0 47/64                        | (933)  |
| 2652RC | 1-10 3/8             | (568) | 1-3 19/32             | (396) | 2.42            | (0.23)         | 2-8 47/64                        | (831)  |
| 2656RC | 1-10 3/8             | (568) | 1-3 11/32             | (390) | 2.38            | (0.22)         | 2-4 47/64                        | (730)  |
| 2660RC | 1-10 3/8             | (568) | 1-5 47/64             | (451) | 2.76            | (0.26)         | 2-0 47/64                        | (628)  |
| 2664RC | 1-10 3/8             | (568) | 1-8 1/8               | (511) | 3.13            | (0.29)         | 1-8 47/64                        | (527)  |
| 2668RC | 1-10 3/8             | (568) | 1-10 33/64            | (572) | 3.50            | (0.33)         | 1-4 47/64                        | (425)  |
| 3036RC | 2-2 3/8              | (670) | 0-6 1/32              | (153) | 1.11            | (0.10)         | 4-0 47/64                        | (1238) |
| 3040RC | 2-2 3/8              | (670) | 0-8 27/64             | (214) | 1.54            | (0.14)         | 3-8 47/64                        | (1136) |
| 3044RC | 2-2 3/8              | (670) | 0-10 13/16            | (275) | 1.98            | (0.18)         | 3-4 47/64                        | (1035) |
| 3048RC | 2-2 3/8              | (670) | 1-1 13/64             | (336) | 2.42            | (0.22)         | 3-0 47/64                        | (933)  |
| 3052RC | 2-2 3/8              | (670) | 1-3 19/32             | (396) | 2.86            | (0.27)         | 2-8 47/64                        | (831)  |
| 3056RC | 2-2 3/8              | (670) | 1-3 11/32             | (390) | 2.81            | (0.26)         | 2-4 47/64                        | (730)  |
| 3060RC | 2-2 3/8              | (670) | 1-5 47/64             | (451) | 3.25            | (0.30)         | 2-0 47/64                        | (628)  |
| 3064RC | 2-2 3/8              | (670) | 1-8 1/8               | (511) | 3.69            | (0.34)         | 1-8 47/64                        | (527)  |
| 3068RC | 2-2 3/8              | (670) | 1-10 33/64            | (572) | 4.12            | (0.38)         | 1-4 47/64                        | (425)  |
| 3236RC | 2-4 3/8              | (721) | 0-6 1/32              | (153) | 1.19            | (0.11)         | 4-0 47/64                        | (1238) |
| 3240RC | 2-4 3/8              | (721) | 0-8 27/64             | (214) | 1.66            | (0.15)         | 3-8 47/64                        | (1136) |
| 3244RC | 2-4 3/8              | (721) | 0-10 13/16            | (275) | 2.13            | (0.20)         | 3-4 47/64                        | (1035) |
| 3248RC | 2-4 3/8              | (721) | 1-1 13/64             | (336) | 2.60            | (0.24)         | 3-0 47/64                        | (933)  |
| 3252RC | 2-4 3/8              | (721) | 1-3 19/32             | (396) | 3.07            | (0.29)         | 2-8 47/64                        | (831)  |
| 3256RC | 2-4 3/8              | (721) | 1-3 11/32             | (390) | 3.02            | (0.28)         | 2-4 47/64                        | (730)  |
| 3260RC | 2-4 3/8              | (721) | 1-5 47/64             | (451) | 3.49            | (0.32)         | 2-0 47/64                        | (628)  |
| 3264RC | 2-4 3/8              | (721) | 1-8 1/8               | (511) | 3.97            | (0.37)         | 1-8 47/64                        | (527)  |
| 3268RC | 2-4 3/8              | (721) | 1-10 33/64            | (572) | 4.44            | (0.41)         | 1-4 47/64                        | (425)  |
| 3436RC | 2-6 3/8              | (771) | 0-6 1/32              | (153) | 1.27            | (0.12)         | 4-0 47/64                        | (1238) |
| 3440RC | 2-6 3/8              | (771) | 0-8 27/64             | (214) | 1.78            | (0.17)         | 3-8 47/64                        | (1136) |
| 3444RC | 2-6 3/8              | (771) | 0-10 13/16            | (275) | 2.28            | (0.21)         | 3-4 47/64                        | (1035) |
| 3448RC | 2-6 3/8              | (771) | 1-1 13/64             | (336) | 2.79            | (0.26)         | 3-0 47/64                        | (933)  |
| 3452RC | 2-6 3/8              | (771) | 1-3 19/32             | (396) | 3.29            | (0.31)         | 2-8 47/64                        | (831)  |
| 3456RC | 2-6 3/8              | (771) | 1-3 11/32             | (390) | 3.24            | (0.30)         | 2-4 47/64                        | (730)  |
| 3460RC | 2-6 3/8              | (771) | 1-5 47/64             | (451) | 3.74            | (0.35)         | 2-0 47/64                        | (628)  |
| 3464RC | 2-6 3/8              | (771) | 1-8 1/8               | (511) | 4.25            | (0.39)         | 1-8 47/64                        | (527)  |
| 3468RC | 2-6 3/8              | (771) | 1-10 33/64            | (572) | 4.75            | (0.44)         | 1-4 47/64                        | (425)  |
| 3636RC | 2-8 3/8              | (822) | 0-6 1/32              | (153) | 1.36            | (0.13)         | 4-0 47/64                        | (1238) |
| 3640RC | 2-8 3/8              | (822) | 0-8 27/64             | (214) | 1.89            | (0.18)         | 3-8 47/64                        | (1136) |
| 3644RC | 2-8 3/8              | (822) | 0-10 13/16            | (275) | 2.43            | (0.23)         | 3-4 47/64                        | (1035) |
| 3648RC | 2-8 3/8              | (822) | 1-1 13/64             | (336) | 2.97            | (0.28)         | 3-0 47/64                        | (933)  |
| 3652RC | 2-8 3/8              | (822) | 1-3 19/32             | (396) | 3.51            | (0.33)         | 2-8 47/64                        | (831)  |
| 3656RC | 2-8 3/8              | (822) | 1-3 11/32             | (390) | 3.45            | (0.32)         | 2-4 47/64                        | (730)  |
| 3660RC | 2-8 3/8              | (822) | 1-5 47/64             | (451) | 3.99            | (0.37)         | 2-0 47/64                        | (628)  |
| 3664RC | 2-8 3/8              | (822) | 1-8 1/8               | (511) | 4.53            | (0.42)         | 1-8 47/64                        | (527)  |
| 3668RC | 2-8 3/8              | (822) | 1-10 33/64            | (572) | 5.06            | (0.47)         | 1-4 47/64                        | (425)  |

## Egress and Vent Openings: Reverse Cottage Units Standard Product

| CN     | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3836RC | 2-10 3/8             | (873)  | 0-6 1/32              | (153) | 1.44            | (0.13)         | 4-0 47/64                        | (1238) |
| 3840RC | 2-10 3/8             | (873)  | 0-8 27/64             | (214) | 2.01            | (0.19)         | 3-8 47/64                        | (1136) |
| 3844RC | 2-10 3/8             | (873)  | 0-10 13/16            | (275) | 2.58            | (0.24)         | 3-4 47/64                        | (1035) |
| 3848RC | 2-10 3/8             | (873)  | 1-1 13/64             | (336) | 3.15            | (0.29)         | 3-0 47/64                        | (933)  |
| 3852RC | 2-10 3/8             | (873)  | 1-3 19/32             | (396) | 3.72            | (0.35)         | 2-8 47/64                        | (831)  |
| 3856RC | 2-10 3/8             | (873)  | 1-3 11/32             | (390) | 3.66            | (0.34)         | 2-4 47/64                        | (730)  |
| 3860RC | 2-10 3/8             | (873)  | 1-5 47/64             | (451) | 4.23            | (0.39)         | 2-0 47/64                        | (628)  |
| 3864RC | 2-10 3/8             | (873)  | 1-8 1/8               | (511) | 4.80            | (0.45)         | 1-8 47/64                        | (527)  |
| 3868RC | 2-10 3/8             | (873)  | 1-10 33/64            | (572) | 5.38            | (0.50)         | 1-4 47/64                        | (425)  |
| 4236RC | 3-2 3/8              | (975)  | 0-6 1/32              | (153) | 1.61            | (0.15)         | 4-0 47/64                        | (1238) |
| 4240RC | 3-2 3/8              | (975)  | 0-8 27/64             | (214) | 2.25            | (0.21)         | 3-8 47/64                        | (1136) |
| 4244RC | 3-2 3/8              | (975)  | 0-10 13/16            | (275) | 2.88            | (0.27)         | 3-4 47/64                        | (1035) |
| 4248RC | 3-2 3/8              | (975)  | 1-1 13/64             | (336) | 3.52            | (0.33)         | 3-0 47/64                        | (933)  |
| 4252RC | 3-2 3/8              | (975)  | 1-3 19/32             | (396) | 4.16            | (0.39)         | 2-8 47/64                        | (831)  |
| 4256RC | 3-2 3/8              | (975)  | 1-3 11/32             | (390) | 4.09            | (0.38)         | 2-4 47/64                        | (730)  |
| 4260RC | 3-2 3/8              | (975)  | 1-5 47/64             | (451) | 4.73            | (0.44)         | 2-0 47/64                        | (628)  |
| 4264RC | 3-2 3/8              | (975)  | 1-8 1/8               | (511) | 5.36            | (0.50)         | 1-8 47/64                        | (527)  |
| 4268RC | 3-2 3/8              | (975)  | 1-10 33/64            | (572) | 6.00            | (0.56)         | 1-4 47/64                        | (425)  |
| 4836RC | 3-8 3/8              | (1127) | 0-6 1/32              | (153) | 1.86            | (0.17)         | 4-0 47/64                        | (1238) |
| 4840RC | 3-8 3/8              | (1127) | 0-8 27/64             | (214) | 2.60            | (0.24)         | 3-8 47/64                        | (1136) |
| 4844RC | 3-8 3/8              | (1127) | 0-10 13/16            | (275) | 3.33            | (0.31)         | 3-4 47/64                        | (1035) |
| 4848RC | 3-8 3/8              | (1127) | 1-1 13/64             | (336) | 4.07            | (0.38)         | 3-0 47/64                        | (933)  |
| 4852RC | 3-8 3/8              | (1127) | 1-3 19/32             | (396) | 4.81            | (0.45)         | 2-8 47/64                        | (831)  |
| 4856RC | 3-8 3/8              | (1127) | 1-3 11/32             | (390) | 4.73            | (0.44)         | 2-4 47/64                        | (730)  |
| 4860RC | 3-8 3/8              | (1127) | 1-5 47/64             | (451) | 5.47            | (0.51)         | 2-0 47/64                        | (628)  |
| 4864RC | 3-8 3/8              | (1127) | 1-8 1/8               | (511) | 6.20            | (0.58)         | 1-8 47/64                        | (527)  |
| 4868RC | 3-8 3/8              | (1127) | 1-10 33/64            | (572) | 6.94            | (0.64)         | 1-4 47/64                        | (425)  |
| 5436RC | 4-2 3/8              | (1279) | 0-6 1/32              | (153) | 2.11            | (0.20)         | 4-0 47/64                        | (1238) |
| 5440RC | 4-2 3/8              | (1279) | 0-8 27/64             | (214) | 2.95            | (0.27)         | 3-8 47/64                        | (1136) |
| 5444RC | 4-2 3/8              | (1279) | 0-10 13/16            | (275) | 3.78            | (0.35)         | 3-4 47/64                        | (1035) |
| 5448RC | 4-2 3/8              | (1279) | 1-1 13/64             | (336) | 4.62            | (0.43)         | 3-0 47/64                        | (933)  |
| 5452RC | 4-2 3/8              | (1279) | 1-3 19/32             | (396) | 5.46            | (0.51)         | 2-8 47/64                        | (831)  |
| 5456RC | 4-2 3/8              | (1279) | 1-3 11/32             | (390) | 5.37            | (0.50)         | 2-4 47/64                        | (730)  |
| 5460RC | 4-2 3/8              | (1279) | 1-5 47/64             | (451) | 6.20            | (0.58)         | 2-0 47/64                        | (628)  |
| 5464RC | 4-2 3/8              | (1279) | 1-8 1/8               | (511) | 7.04            | (0.65)         | 1-8 47/64                        | (527)  |
| 5468RC | 4-2 3/8              | (1279) | 1-10 33/64            | (572) | 7.88            | (0.73)         | 1-4 47/64                        | (425)  |

# Egress and Vent Openings: Reverse Cottage Units High-Performance

| CN     | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2236RC | 1-6 3/8              | (467) | 0-5 37/64             | (142) | 0.71            | (0.07)         | 4-1 3/16                         | (1249) |
| 2240RC | 1-6 3/8              | (467) | 0-7 31/32             | (202) | 1.02            | (0.09)         | 3-9 3/16                         | (1148) |
| 2244RC | 1-6 3/8              | (467) | 0-10 23/64            | (263) | 1.32            | (0.12)         | 3-5 3/16                         | (1046) |
| 2248RC | 1-6 3/8              | (467) | 1-0 3/4               | (324) | 1.63            | (0.15)         | 3-1 3/16                         | (945)  |
| 2252RC | 1-6 3/8              | (467) | 1-3 9/64              | (385) | 1.93            | (0.18)         | 2-9 3/16                         | (843)  |
| 2256RC | 1-6 3/8              | (467) | 1-2 57/64             | (378) | 1.90            | (0.18)         | 2-5 3/16                         | (741)  |
| 2260RC | 1-6 3/8              | (467) | 1-5 9/32              | (439) | 2.20            | (0.20)         | 2-1 3/16                         | (640)  |
| 2264RC | 1-6 3/8              | (467) | 1-7 43/64             | (500) | 2.51            | (0.23)         | 1-9 3/16                         | (538)  |
| 2268RC | 1-6 3/8              | (467) | 1-10 1/16             | (560) | 2.81            | (0.26)         | 1-5 3/16                         | (437)  |
| 2636RC | 1-10 3/8             | (568) | 0-5 37/64             | (142) | 0.87            | (0.08)         | 4-1 3/16                         | (1249) |
| 2640RC | 1-10 3/8             | (568) | 0-7 31/32             | (202) | 1.24            | (0.12)         | 3-9 3/16                         | (1148) |
| 2644RC | 1-10 3/8             | (568) | 0-10 23/64            | (263) | 1.61            | (0.15)         | 3-5 3/16                         | (1046) |
| 2648RC | 1-10 3/8             | (568) | 1-0 3/4               | (324) | 1.98            | (0.18)         | 3-1 3/16                         | (945)  |
| 2652RC | 1-10 3/8             | (568) | 1-3 9/64              | (385) | 2.35            | (0.22)         | 2-9 3/16                         | (843)  |
| 2656RC | 1-10 3/8             | (568) | 1-2 57/64             | (378) | 2.31            | (0.21)         | 2-5 3/16                         | (741)  |
| 2660RC | 1-10 3/8             | (568) | 1-5 9/32              | (439) | 2.68            | (0.25)         | 2-1 3/16                         | (640)  |
| 2664RC | 1-10 3/8             | (568) | 1-7 43/64             | (500) | 3.06            | (0.28)         | 1-9 3/16                         | (538)  |
| 2668RC | 1-10 3/8             | (568) | 1-10 1/16             | (560) | 3.43            | (0.32)         | 1-5 3/16                         | (437)  |
| 3036RC | 2-2 3/8              | (670) | 0-5 37/64             | (142) | 1.02            | (0.09)         | 4-1 3/16                         | (1249) |
| 3040RC | 2-2 3/8              | (670) | 0-7 31/32             | (202) | 1.46            | (0.14)         | 3-9 3/16                         | (1148) |
| 3044RC | 2-2 3/8              | (670) | 0-10 23/64            | (263) | 1.90            | (0.18)         | 3-5 3/16                         | (1046) |
| 3048RC | 2-2 3/8              | (670) | 1-0 3/4               | (324) | 2.34            | (0.22)         | 3-1 3/16                         | (945)  |
| 3052RC | 2-2 3/8              | (670) | 1-3 9/64              | (385) | 2.77            | (0.26)         | 2-9 3/16                         | (843)  |
| 3056RC | 2-2 3/8              | (670) | 1-2 57/64             | (378) | 2.73            | (0.25)         | 2-5 3/16                         | (741)  |
| 3060RC | 2-2 3/8              | (670) | 1-5 9/32              | (439) | 3.16            | (0.29)         | 2-1 3/16                         | (640)  |
| 3064RC | 2-2 3/8              | (670) | 1-7 43/64             | (500) | 3.60            | (0.33)         | 1-9 3/16                         | (538)  |
| 3068RC | 2-2 3/8              | (670) | 1-10 1/16             | (560) | 4.04            | (0.38)         | 1-5 3/16                         | (437)  |
| 3236RC | 2-4 3/8              | (721) | 0-5 37/64             | (142) | 1.10            | (0.10)         | 4-1 3/16                         | (1249) |
| 3240RC | 2-4 3/8              | (721) | 0-7 31/32             | (202) | 1.57            | (0.15)         | 3-9 3/16                         | (1148) |
| 3244RC | 2-4 3/8              | (721) | 0-10 23/64            | (263) | 2.04            | (0.19)         | 3-5 3/16                         | (1046) |
| 3248RC | 2-4 3/8              | (721) | 1-0 3/4               | (324) | 2.51            | (0.23)         | 3-1 3/16                         | (945)  |
| 3252RC | 2-4 3/8              | (721) | 1-3 9/64              | (385) | 2.98            | (0.28)         | 2-9 3/16                         | (843)  |
| 3256RC | 2-4 3/8              | (721) | 1-2 57/64             | (378) | 2.93            | (0.27)         | 2-5 3/16                         | (741)  |
| 3260RC | 2-4 3/8              | (721) | 1-5 9/32              | (439) | 3.40            | (0.32)         | 2-1 3/16                         | (640)  |
| 3264RC | 2-4 3/8              | (721) | 1-7 43/64             | (500) | 3.88            | (0.36)         | 1-9 3/16                         | (538)  |
| 3268RC | 2-4 3/8              | (721) | 1-10 1/16             | (560) | 4.35            | (0.40)         | 1-5 3/16                         | (437)  |
| 3436RC | 2-6 3/8              | (771) | 0-5 37/64             | (142) | 1.18            | (0.11)         | 4-1 3/16                         | (1249) |
| 3440RC | 2-6 3/8              | (771) | 0-7 31/32             | (202) | 1.68            | (0.16)         | 3-9 3/16                         | (1148) |
| 3444RC | 2-6 3/8              | (771) | 0-10 23/64            | (263) | 2.19            | (0.20)         | 3-5 3/16                         | (1046) |
| 3448RC | 2-6 3/8              | (771) | 1-0 3/4               | (324) | 2.69            | (0.25)         | 3-1 3/16                         | (945)  |
| 3452RC | 2-6 3/8              | (771) | 1-3 9/64              | (385) | 3.19            | (0.30)         | 2-9 3/16                         | (843)  |
| 3456RC | 2-6 3/8              | (771) | 1-2 57/64             | (378) | 3.14            | (0.29)         | 2-5 3/16                         | (741)  |
| 3460RC | 2-6 3/8              | (771) | 1-5 9/32              | (439) | 3.64            | (0.34)         | 2-1 3/16                         | (640)  |
| 3464RC | 2-6 3/8              | (771) | 1-7 43/64             | (500) | 4.15            | (0.39)         | 1-9 3/16                         | (538)  |
| 3468RC | 2-6 3/8              | (771) | 1-10 1/16             | (560) | 4.65            | (0.43)         | 1-5 3/16                         | (437)  |

# Egress and Vent Openings: Reverse Cottage Units High-Performance

| CN     | Egress Opening Width |        | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|--------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm     | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3636RC | 2-8 3/8              | (822)  | 0-5 37/64             | (142) | 1.25            | (0.12)         | 4-1 3/16                         | (1249) |
| 3640RC | 2-8 3/8              | (822)  | 0-7 31/32             | (202) | 1.79            | (0.17)         | 3-9 3/16                         | (1148) |
| 3644RC | 2-8 3/8              | (822)  | 0-10 23/64            | (263) | 2.33            | (0.22)         | 3-5 3/16                         | (1046) |
| 3648RC | 2-8 3/8              | (822)  | 1-0 3/4               | (324) | 2.87            | (0.27)         | 3-1 3/16                         | (945)  |
| 3652RC | 2-8 3/8              | (822)  | 1-3 9/64              | (385) | 3.40            | (0.32)         | 2-9 3/16                         | (843)  |
| 3656RC | 2-8 3/8              | (822)  | 1-2 57/64             | (378) | 3.35            | (0.31)         | 2-5 3/16                         | (741)  |
| 3660RC | 2-8 3/8              | (822)  | 1-5 9/32              | (439) | 3.88            | (0.36)         | 2-1 3/16                         | (640)  |
| 3664RC | 2-8 3/8              | (822)  | 1-7 43/64             | (500) | 4.42            | (0.41)         | 1-9 3/16                         | (538)  |
| 3668RC | 2-8 3/8              | (822)  | 1-10 1/16             | (560) | 4.96            | (0.46)         | 1-5 3/16                         | (437)  |
| 3836RC | 2-10 3/8             | (873)  | 0-5 37/64             | (142) | 1.33            | (0.12)         | 4-1 3/16                         | (1249) |
| 3840RC | 2-10 3/8             | (873)  | 0-7 31/32             | (202) | 1.90            | (0.18)         | 3-9 3/16                         | (1148) |
| 3844RC | 2-10 3/8             | (873)  | 0-10 23/64            | (263) | 2.47            | (0.23)         | 3-5 3/16                         | (1046) |
| 3848RC | 2-10 3/8             | (873)  | 1-0 3/4               | (324) | 3.04            | (0.28)         | 3-1 3/16                         | (945)  |
| 3852RC | 2-10 3/8             | (873)  | 1-3 9/64              | (385) | 3.61            | (0.34)         | 2-9 3/16                         | (843)  |
| 3856RC | 2-10 3/8             | (873)  | 1-2 57/64             | (378) | 3.55            | (0.33)         | 2-5 3/16                         | (741)  |
| 3860RC | 2-10 3/8             | (873)  | 1-5 9/32              | (439) | 4.12            | (0.38)         | 2-1 3/16                         | (640)  |
| 3864RC | 2-10 3/8             | (873)  | 1-7 43/64             | (500) | 4.70            | (0.44)         | 1-9 3/16                         | (538)  |
| 3868RC | 2-10 3/8             | (873)  | 1-10 1/16             | (560) | 5.27            | (0.49)         | 1-5 3/16                         | (437)  |
| 4236RC | 3-2 3/8              | (975)  | 0-5 37/64             | (142) | 1.49            | (0.14)         | 4-1 3/16                         | (1249) |
| 4240RC | 3-2 3/8              | (975)  | 0-7 31/32             | (202) | 2.12            | (0.20)         | 3-9 3/16                         | (1148) |
| 4244RC | 3-2 3/8              | (975)  | 0-10 23/64            | (263) | 2.76            | (0.26)         | 3-5 3/16                         | (1046) |
| 4248RC | 3-2 3/8              | (975)  | 1-0 3/4               | (324) | 3.40            | (0.32)         | 3-1 3/16                         | (945)  |
| 4252RC | 3-2 3/8              | (975)  | 1-3 9/64              | (385) | 4.03            | (0.37)         | 2-9 3/16                         | (843)  |
| 4256RC | 3-2 3/8              | (975)  | 1-2 57/64             | (378) | 3.97            | (0.37)         | 2-5 3/16                         | (741)  |
| 4260RC | 3-2 3/8              | (975)  | 1-5 9/32              | (439) | 4.60            | (0.43)         | 2-1 3/16                         | (640)  |
| 4264RC | 3-2 3/8              | (975)  | 1-7 43/64             | (500) | 5.24            | (0.49)         | 1-9 3/16                         | (538)  |
| 4268RC | 3-2 3/8              | (975)  | 1-10 1/16             | (560) | 5.88            | (0.55)         | 1-5 3/16                         | (437)  |
| 4836RC | 3-8 3/8              | (1127) | 0-5 37/64             | (142) | 1.72            | (0.16)         | 4-1 3/16                         | (1249) |
| 4840RC | 3-8 3/8              | (1127) | 0-7 31/32             | (202) | 2.46            | (0.23)         | 3-9 3/16                         | (1148) |
| 4844RC | 3-8 3/8              | (1127) | 0-10 23/64            | (263) | 3.19            | (0.30)         | 3-5 3/16                         | (1046) |
| 4848RC | 3-8 3/8              | (1127) | 1-0 3/4               | (324) | 3.93            | (0.37)         | 3-1 3/16                         | (945)  |
| 4852RC | 3-8 3/8              | (1127) | 1-3 9/64              | (385) | 4.67            | (0.43)         | 2-9 3/16                         | (843)  |
| 4856RC | 3-8 3/8              | (1127) | 1-2 57/64             | (378) | 4.59            | (0.43)         | 2-5 3/16                         | (741)  |
| 4860RC | 3-8 3/8              | (1127) | 1-5 9/32              | (439) | 5.32            | (0.49)         | 2-1 3/16                         | (640)  |
| 4864RC | 3-8 3/8              | (1127) | 1-7 43/64             | (500) | 6.06            | (0.56)         | 1-9 3/16                         | (538)  |
| 4868RC | 3-8 3/8              | (1127) | 1-10 1/16             | (560) | 6.80            | (0.63)         | 1-5 3/16                         | (437)  |
| 5436RC | 4-2 3/8              | (1279) | 0-5 37/64             | (142) | 1.95            | (0.18)         | 4-1 3/16                         | (1249) |
| 5440RC | 4-2 3/8              | (1279) | 0-7 31/32             | (202) | 2.79            | (0.26)         | 3-9 3/16                         | (1148) |
| 5444RC | 4-2 3/8              | (1279) | 0-10 23/64            | (263) | 3.62            | (0.34)         | 3-5 3/16                         | (1046) |
| 5448RC | 4-2 3/8              | (1279) | 1-0 3/4               | (324) | 4.46            | (0.41)         | 3-1 3/16                         | (945)  |
| 5452RC | 4-2 3/8              | (1279) | 1-3 9/64              | (385) | 5.30            | (0.49)         | 2-9 3/16                         | (843)  |
| 5456RC | 4-2 3/8              | (1279) | 1-2 57/64             | (378) | 5.21            | (0.48)         | 2-5 3/16                         | (741)  |
| 5460RC | 4-2 3/8              | (1279) | 1-5 9/32              | (439) | 6.04            | (0.56)         | 2-1 3/16                         | (640)  |
| 5464RC | 4-2 3/8              | (1279) | 1-7 43/64             | (500) | 6.88            | (0.64)         | 1-9 3/16                         | (538)  |
| 5468RC | 4-2 3/8              | (1279) | 1-10 1/16             | (560) | 7.72            | (0.72)         | 1-5 3/16                         | (437)  |

# Egress and Vent Openings: Reverse Cottage Units IZ3

| CN     | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 2244RC | 1-6 3/8              | (467) | 0-10 23/64            | (263) | 1.32            | (0.12)         | 3-5 3/16                         | (1046) |
| 2248RC | 1-6 3/8              | (467) | 1-0 3/4               | (324) | 1.63            | (0.15)         | 3-1 3/16                         | (945)  |
| 2252RC | 1-6 3/8              | (467) | 1-3 9/64              | (385) | 1.93            | (0.18)         | 2-9 3/16                         | (843)  |
| 2256RC | 1-6 3/8              | (467) | 1-2 57/64             | (378) | 1.90            | (0.18)         | 2-5 3/16                         | (741)  |
| 2260RC | 1-6 3/8              | (467) | 1-5 9/32              | (439) | 2.20            | (0.20)         | 2-1 3/16                         | (640)  |
| 2264RC | 1-6 3/8              | (467) | 1-7 43/64             | (500) | 2.51            | (0.23)         | 1-9 3/16                         | (538)  |
| 2268RC | 1-6 3/8              | (467) | 1-10 1/16             | (560) | 2.81            | (0.26)         | 1-5 3/16                         | (437)  |
| 2644RC | 1-10 3/8             | (568) | 0-10 23/64            | (263) | 1.61            | (0.15)         | 3-5 3/16                         | (1046) |
| 2648RC | 1-10 3/8             | (568) | 1-0 3/4               | (324) | 1.98            | (0.18)         | 3-1 3/16                         | (945)  |
| 2652RC | 1-10 3/8             | (568) | 1-3 9/64              | (385) | 2.35            | (0.22)         | 2-9 3/16                         | (843)  |
| 2656RC | 1-10 3/8             | (568) | 1-2 57/64             | (378) | 2.31            | (0.21)         | 2-5 3/16                         | (741)  |
| 2660RC | 1-10 3/8             | (568) | 1-5 9/32              | (439) | 2.68            | (0.25)         | 2-1 3/16                         | (640)  |
| 2664RC | 1-10 3/8             | (568) | 1-7 43/64             | (500) | 3.06            | (0.28)         | 1-9 3/16                         | (538)  |
| 2668RC | 1-10 3/8             | (568) | 1-10 1/16             | (560) | 3.43            | (0.32)         | 1-5 3/16                         | (437)  |
| 3044RC | 2-2 3/8              | (670) | 0-10 23/64            | (263) | 1.90            | (0.18)         | 3-5 3/16                         | (1046) |
| 3048RC | 2-2 3/8              | (670) | 1-0 3/4               | (324) | 2.34            | (0.22)         | 3-1 3/16                         | (945)  |
| 3052RC | 2-2 3/8              | (670) | 1-3 9/64              | (385) | 2.77            | (0.26)         | 2-9 3/16                         | (843)  |
| 3056RC | 2-2 3/8              | (670) | 1-2 57/64             | (378) | 2.73            | (0.25)         | 2-5 3/16                         | (741)  |
| 3060RC | 2-2 3/8              | (670) | 1-5 9/32              | (439) | 3.16            | (0.29)         | 2-1 3/16                         | (640)  |
| 3064RC | 2-2 3/8              | (670) | 1-7 43/64             | (500) | 3.60            | (0.33)         | 1-9 3/16                         | (538)  |
| 3068RC | 2-2 3/8              | (670) | 1-10 1/16             | (560) | 4.04            | (0.38)         | 1-5 3/16                         | (437)  |
| 3244RC | 2-4 3/8              | (721) | 0-10 23/64            | (263) | 2.04            | (0.19)         | 3-5 3/16                         | (1046) |
| 3248RC | 2-4 3/8              | (721) | 1-0 3/4               | (324) | 2.51            | (0.23)         | 3-1 3/16                         | (945)  |
| 3252RC | 2-4 3/8              | (721) | 1-3 9/64              | (385) | 2.98            | (0.28)         | 2-9 3/16                         | (843)  |
| 3256RC | 2-4 3/8              | (721) | 1-2 57/64             | (378) | 2.93            | (0.27)         | 2-5 3/16                         | (741)  |
| 3260RC | 2-4 3/8              | (721) | 1-5 9/32              | (439) | 3.40            | (0.32)         | 2-1 3/16                         | (640)  |
| 3264RC | 2-4 3/8              | (721) | 1-7 43/64             | (500) | 3.88            | (0.36)         | 1-9 3/16                         | (538)  |
| 3268RC | 2-4 3/8              | (721) | 1-10 1/16             | (560) | 4.35            | (0.40)         | 1-5 3/16                         | (437)  |
| 3444RC | 2-6 3/8              | (771) | 0-10 23/64            | (263) | 2.19            | (0.20)         | 3-5 3/16                         | (1046) |
| 3448RC | 2-6 3/8              | (771) | 1-0 3/4               | (324) | 2.69            | (0.25)         | 3-1 3/16                         | (945)  |
| 3452RC | 2-6 3/8              | (771) | 1-3 9/64              | (385) | 3.19            | (0.30)         | 2-9 3/16                         | (843)  |
| 3456RC | 2-6 3/8              | (771) | 1-2 57/64             | (378) | 3.14            | (0.29)         | 2-5 3/16                         | (741)  |
| 3460RC | 2-6 3/8              | (771) | 1-5 9/32              | (439) | 3.64            | (0.34)         | 2-1 3/16                         | (640)  |
| 3464RC | 2-6 3/8              | (771) | 1-7 43/64             | (500) | 4.15            | (0.39)         | 1-9 3/16                         | (538)  |
| 3468RC | 2-6 3/8              | (771) | 1-10 1/16             | (560) | 4.65            | (0.43)         | 1-5 3/16                         | (437)  |

## Egress and Vent Openings: Reverse Cottage Units IZ3

| CN     | Egress Opening Width |       | Egress Opening Height |       | Egress Opening  |                | Floor to Bottom of Clear Opening |        |
|--------|----------------------|-------|-----------------------|-------|-----------------|----------------|----------------------------------|--------|
|        | ft - in              | mm    | ft - in               | mm    | ft <sup>2</sup> | m <sup>2</sup> | ft - in                          | mm     |
| 3644RC | 2-8 3/8              | (822) | 0-10 23/64            | (263) | 2.33            | (0.22)         | 3-5 3/16                         | (1046) |
| 3648RC | 2-8 3/8              | (822) | 1-0 3/4               | (324) | 2.87            | (0.27)         | 3-1 3/16                         | (945)  |
| 3652RC | 2-8 3/8              | (822) | 1-3 9/64              | (385) | 3.40            | (0.32)         | 2-9 3/16                         | (843)  |
| 3656RC | 2-8 3/8              | (822) | 1-2 57/64             | (378) | 3.35            | (0.31)         | 2-5 3/16                         | (741)  |
| 3660RC | 2-8 3/8              | (822) | 1-5 9/32              | (439) | 3.88            | (0.36)         | 2-1 3/16                         | (640)  |
| 3664RC | 2-8 3/8              | (822) | 1-7 43/64             | (500) | 4.42            | (0.41)         | 1-9 3/16                         | (538)  |
| 3668RC | 2-8 3/8              | (822) | 1-10 1/16             | (560) | 4.96            | (0.46)         | 1-5 3/16                         | (437)  |
| 3844RC | 2-10 3/8             | (873) | 0-10 23/64            | (263) | 2.47            | (0.23)         | 3-5 3/16                         | (1046) |
| 3848RC | 2-10 3/8             | (873) | 1-0 3/4               | (324) | 3.04            | (0.28)         | 3-1 3/16                         | (945)  |
| 3852RC | 2-10 3/8             | (873) | 1-3 9/64              | (385) | 3.61            | (0.34)         | 2-9 3/16                         | (843)  |
| 3856RC | 2-10 3/8             | (873) | 1-2 57/64             | (378) | 3.55            | (0.33)         | 2-5 3/16                         | (741)  |
| 3860RC | 2-10 3/8             | (873) | 1-5 9/32              | (439) | 4.12            | (0.38)         | 2-1 3/16                         | (640)  |
| 3864RC | 2-10 3/8             | (873) | 1-7 43/64             | (500) | 4.70            | (0.44)         | 1-9 3/16                         | (538)  |
| 3868RC | 2-10 3/8             | (873) | 1-10 1/16             | (560) | 5.27            | (0.49)         | 1-5 3/16                         | (437)  |
| 4244RC | 3-2 3/8              | (975) | 0-10 23/64            | (263) | 2.76            | (0.26)         | 3-5 3/16                         | (1046) |
| 4248RC | 3-2 3/8              | (975) | 1-0 3/4               | (324) | 3.40            | (0.32)         | 3-1 3/16                         | (945)  |
| 4252RC | 3-2 3/8              | (975) | 1-3 9/64              | (385) | 4.03            | (0.37)         | 2-9 3/16                         | (843)  |
| 4256RC | 3-2 3/8              | (975) | 1-2 57/64             | (378) | 3.97            | (0.37)         | 2-5 3/16                         | (741)  |
| 4260RC | 3-2 3/8              | (975) | 1-5 9/32              | (439) | 4.60            | (0.43)         | 2-1 3/16                         | (640)  |
| 4264RC | 3-2 3/8              | (975) | 1-7 43/64             | (500) | 5.24            | (0.49)         | 1-9 3/16                         | (538)  |

## Daylight Measurements: Double Hung

| CN*  | Daylight Opening Width (per sash) |       | Daylight Opening Height (per sash) |       | Daylight Opening (both Sash) |                |
|------|-----------------------------------|-------|------------------------------------|-------|------------------------------|----------------|
|      | ft - in                           | mm    | ft - in                            | mm    | ft <sup>2</sup>              | m <sup>2</sup> |
| 2236 | 1-3 11/16                         | (398) | 1-1 11/16                          | (348) | 2.98                         | (0.28)         |
| 2240 | 1-3 11/16                         | (398) | 1-3 11/16                          | (398) | 3.42                         | (0.32)         |
| 2244 | 1-3 11/16                         | (398) | 1-5 11/16                          | (449) | 3.85                         | (0.36)         |
| 2248 | 1-3 11/16                         | (398) | 1-7 11/16                          | (500) | 4.29                         | (0.40)         |
| 2252 | 1-3 11/16                         | (398) | 1-9 11/16                          | (551) | 4.73                         | (0.44)         |
| 2256 | 1-3 11/16                         | (398) | 1-11 11/16                         | (602) | 5.16                         | (0.48)         |
| 2260 | 1-3 11/16                         | (398) | 2-1 11/16                          | (652) | 5.60                         | (0.52)         |
| 2264 | 1-3 11/16                         | (398) | 2-3 11/16                          | (703) | 6.03                         | (1.46)         |
| 2268 | 1-3 11/16                         | (398) | 2-5 11/16                          | (754) | 6.47                         | (0.60)         |
| 2272 | 1-3 11/16                         | (398) | 2-7 11/16                          | (805) | 6.90                         | (0.64)         |
| 2276 | 1-3 11/16                         | (398) | 2-9 11/16                          | (856) | 7.34                         | (0.68)         |
| 2280 | 1-3 11/16                         | (398) | 2-11 11/16                         | (906) | 7.78                         | (0.72)         |
| 2284 | 1-3 11/16                         | (398) | 3-1 11/16                          | (957) | 8.21                         | (0.76)         |
| 2636 | 1-7 11/16                         | (500) | 1-1 11/16                          | (348) | 3.74                         | (0.35)         |
| 2640 | 1-7 11/16                         | (500) | 1-3 11/16                          | (398) | 4.29                         | (0.40)         |
| 2644 | 1-7 11/16                         | (500) | 1-5 11/16                          | (449) | 4.84                         | (0.45)         |
| 2648 | 1-7 11/16                         | (500) | 1-7 11/16                          | (500) | 5.38                         | (0.50)         |
| 2652 | 1-7 11/16                         | (500) | 1-9 11/16                          | (551) | 5.93                         | (0.55)         |
| 2656 | 1-7 11/16                         | (500) | 1-11 11/16                         | (602) | 6.48                         | (0.60)         |
| 2660 | 1-7 11/16                         | (500) | 2-1 11/16                          | (652) | 7.02                         | (0.65)         |
| 2664 | 1-7 11/16                         | (500) | 2-3 11/16                          | (703) | 7.57                         | (0.70)         |
| 2668 | 1-7 11/16                         | (500) | 2-5 11/16                          | (754) | 8.12                         | (0.75)         |
| 2672 | 1-7 11/16                         | (500) | 2-7 11/16                          | (805) | 8.66                         | (0.80)         |
| 2676 | 1-7 11/16                         | (500) | 2-9 11/16                          | (856) | 9.21                         | (0.86)         |
| 2680 | 1-7 11/16                         | (500) | 2-11 11/16                         | (906) | 9.76                         | (0.91)         |
| 2684 | 1-7 11/16                         | (500) | 3-1 11/16                          | (957) | 10.31                        | (0.96)         |
| 3036 | 1-11 11/16                        | (602) | 1-1 11/16                          | (348) | 4.50                         | (0.42)         |
| 3040 | 1-11 11/16                        | (602) | 1-3 11/16                          | (398) | 5.16                         | (0.48)         |
| 3044 | 1-11 11/16                        | (602) | 1-5 11/16                          | (449) | 5.82                         | (0.54)         |
| 3048 | 1-11 11/16                        | (602) | 1-7 11/16                          | (500) | 6.48                         | (0.60)         |
| 3052 | 1-11 11/16                        | (602) | 1-9 11/16                          | (551) | 7.14                         | (0.66)         |
| 3056 | 1-11 11/16                        | (602) | 1-11 11/16                         | (602) | 7.79                         | (0.72)         |
| 3060 | 1-11 11/16                        | (602) | 2-1 11/16                          | (652) | 8.45                         | (0.79)         |
| 3064 | 1-11 11/16                        | (602) | 2-3 11/16                          | (703) | 9.11                         | (0.85)         |
| 3068 | 1-11 11/16                        | (602) | 2-5 11/16                          | (754) | 9.77                         | (0.91)         |
| 3072 | 1-11 11/16                        | (602) | 2-7 11/16                          | (805) | 10.43                        | (0.97)         |
| 3076 | 1-11 11/16                        | (602) | 2-9 11/16                          | (856) | 11.08                        | (1.03)         |
| 3080 | 1-11 11/16                        | (602) | 2-11 11/16                         | (906) | 11.74                        | (1.09)         |
| 3084 | 1-11 11/16                        | (602) | 3-1 11/16                          | (957) | 12.40                        | (1.15)         |
| 3236 | 2-1 11/16                         | (652) | 1-1 11/16                          | (348) | 4.88                         | (0.45)         |
| 3240 | 2-1 11/16                         | (652) | 1-3 11/16                          | (398) | 5.60                         | (0.52)         |
| 3244 | 2-1 11/16                         | (652) | 1-5 11/16                          | (449) | 6.31                         | (0.59)         |
| 3248 | 2-1 11/16                         | (652) | 1-7 11/16                          | (500) | 7.02                         | (0.65)         |
| 3252 | 2-1 11/16                         | (652) | 1-9 11/16                          | (551) | 7.74                         | (0.72)         |
| 3256 | 2-1 11/16                         | (652) | 1-11 11/16                         | (602) | 8.45                         | (0.79)         |
| 3260 | 2-1 11/16                         | (652) | 2-1 11/16                          | (652) | 9.16                         | (0.85)         |
| 3264 | 2-1 11/16                         | (652) | 2-3 11/16                          | (703) | 9.88                         | (0.92)         |
| 3268 | 2-1 11/16                         | (652) | 2-5 11/16                          | (754) | 10.59                        | (0.98)         |
| 3272 | 2-1 11/16                         | (652) | 2-7 11/16                          | (805) | 11.31                        | (1.05)         |
| 3276 | 2-1 11/16                         | (652) | 2-9 11/16                          | (856) | 12.02                        | (1.12)         |
| 3280 | 2-1 11/16                         | (652) | 2-11 11/16                         | (906) | 12.73                        | (1.18)         |
| 3284 | 2-1 11/16                         | (652) | 3-1 11/16                          | (957) | 13.45                        | (1.25)         |
| 3436 | 2-3 11/16                         | (703) | 1-1 11/16                          | (348) | 5.26                         | (0.49)         |
| 3440 | 2-3 11/16                         | (703) | 1-3 11/16                          | (398) | 6.03                         | (0.56)         |
| 3444 | 2-3 11/16                         | (703) | 1-5 11/16                          | (449) | 6.80                         | (0.63)         |
| 3448 | 2-3 11/16                         | (703) | 1-7 11/16                          | (500) | 7.57                         | (0.70)         |
| 3452 | 2-3 11/16                         | (703) | 1-9 11/16                          | (551) | 8.34                         | (0.77)         |
| 3456 | 2-3 11/16                         | (703) | 1-11 11/16                         | (602) | 9.11                         | (0.85)         |
| 3460 | 2-3 11/16                         | (703) | 2-1 11/16                          | (652) | 9.88                         | (0.92)         |
| 3464 | 2-3 11/16                         | (703) | 2-3 11/16                          | (703) | 10.65                        | (0.99)         |
| 3468 | 2-3 11/16                         | (703) | 2-5 11/16                          | (754) | 11.42                        | (1.06)         |
| 3472 | 2-3 11/16                         | (703) | 2-7 11/16                          | (805) | 12.19                        | (1.13)         |
| 3476 | 2-3 11/16                         | (703) | 2-9 11/16                          | (856) | 12.95                        | (1.20)         |
| 3480 | 2-3 11/16                         | (703) | 2-11 11/16                         | (906) | 13.72                        | (1.28)         |
| 3484 | 2-3 11/16                         | (703) | 3-1 11/16                          | (957) | 14.49                        | (1.35)         |
| 3636 | 2-5 11/16                         | (754) | 1-1 11/16                          | (348) | 5.64                         | (0.52)         |
| 3640 | 2-5 11/16                         | (754) | 1-3 11/16                          | (398) | 6.47                         | (0.60)         |
| 3644 | 2-5 11/16                         | (754) | 1-5 11/16                          | (449) | 7.29                         | (0.68)         |
| 3648 | 2-5 11/16                         | (754) | 1-7 11/16                          | (500) | 8.12                         | (0.75)         |
| 3652 | 2-5 11/16                         | (754) | 1-9 11/16                          | (551) | 8.94                         | (0.83)         |
| 3656 | 2-5 11/16                         | (754) | 1-11 11/16                         | (602) | 9.77                         | (0.91)         |
| 3660 | 2-5 11/16                         | (754) | 2-1 11/16                          | (652) | 10.59                        | (0.98)         |
| 3664 | 2-5 11/16                         | (754) | 2-3 11/16                          | (703) | 11.42                        | (1.06)         |
| 3668 | 2-5 11/16                         | (754) | 2-5 11/16                          | (754) | 12.24                        | (1.14)         |
| 3672 | 2-5 11/16                         | (754) | 2-7 11/16                          | (805) | 13.07                        | (1.21)         |
| 3676 | 2-5 11/16                         | (754) | 2-9 11/16                          | (856) | 13.89                        | (1.29)         |
| 3680 | 2-5 11/16                         | (754) | 2-11 11/16                         | (906) | 14.72                        | (1.37)         |
| 3684 | 2-5 11/16                         | (754) | 3-1 11/16                          | (957) | 15.54                        | (1.44)         |

# Daylight Measurements: Double Hung

| CN*  | Daylight Opening Width<br>(per sash) |       | Daylight Opening Height<br>(per sash) |       | Daylight Opening (both Sash) |                |
|------|--------------------------------------|-------|---------------------------------------|-------|------------------------------|----------------|
|      | ft - in                              | mm    | ft - in                               | mm    | ft <sup>2</sup>              | m <sup>2</sup> |
| 3836 | 2-7 11/16                            | (805) | 1-1 11/16                             | (348) | 6.02                         | (0.56)         |
| 3840 | 2-7 11/16                            | (805) | 1-3 11/16                             | (398) | 6.90                         | (0.64)         |
| 3844 | 2-7 11/16                            | (805) | 1-5 11/16                             | (449) | 7.78                         | (0.72)         |
| 3848 | 2-7 11/16                            | (805) | 1-7 11/16                             | (500) | 8.66                         | (0.80)         |
| 3852 | 2-7 11/16                            | (805) | 1-9 11/16                             | (551) | 9.55                         | (0.89)         |
| 3856 | 2-7 11/16                            | (805) | 1-11 11/16                            | (602) | 10.43                        | (0.97)         |
| 3860 | 2-7 11/16                            | (805) | 2-1 11/16                             | (652) | 11.31                        | (1.05)         |
| 3864 | 2-7 11/16                            | (805) | 2-3 11/16                             | (703) | 12.19                        | (1.13)         |
| 3868 | 2-7 11/16                            | (805) | 2-5 11/16                             | (754) | 13.07                        | (1.21)         |
| 3872 | 2-7 11/16                            | (805) | 2-7 11/16                             | (805) | 13.95                        | (1.30)         |
| 3876 | 2-7 11/16                            | (805) | 2-9 11/16                             | (856) | 14.83                        | (1.38)         |
| 3880 | 2-7 11/16                            | (805) | 2-11 11/16                            | (906) | 15.71                        | (1.46)         |
| 3884 | 2-7 11/16                            | (805) | 3-1 11/16                             | (957) | 16.59                        | (1.54)         |
| 4236 | 2-11 11/16                           | (906) | 1-1 11/16                             | (348) | 6.78                         | (0.63)         |
| 4240 | 2-11 11/16                           | (906) | 1-3 11/16                             | (398) | 7.78                         | (0.72)         |
| 4244 | 2-11 11/16                           | (906) | 1-5 11/16                             | (449) | 8.77                         | (0.81)         |
| 4248 | 2-11 11/16                           | (906) | 1-7 11/16                             | (500) | 9.76                         | (0.91)         |
| 4252 | 2-11 11/16                           | (906) | 1-9 11/16                             | (551) | 10.75                        | (1.00)         |
| 4256 | 2-11 11/16                           | (906) | 1-11 11/16                            | (602) | 11.74                        | (1.09)         |
| 4260 | 2-11 11/16                           | (906) | 2-1 11/16                             | (652) | 12.73                        | (1.18)         |
| 4264 | 2-11 11/16                           | (906) | 2-3 11/16                             | (703) | 13.72                        | (1.28)         |
| 4268 | 2-11 11/16                           | (906) | 2-5 11/16                             | (754) | 14.72                        | (1.37)         |
| 4272 | 2-11 11/16                           | (906) | 2-7 11/16                             | (805) | 15.71                        | (1.46)         |
| 4276 | 2-11 11/16                           | (906) | 2-9 11/16                             | (856) | 16.70                        | (1.55)         |
| 4280 | 2-11 11/16                           | (906) | 2-11 11/16                            | (906) | 17.69                        | (1.64)         |
| 4284 | 2-11 11/16                           | (906) | 3-1 11/16                             | (957) | 18.68                        | (1.74)         |

| CN   | Daylight Opening Width<br>(per sash) |        | Daylight Opening Height<br>(per sash) |       | Daylight Opening (both Sash) |                |
|------|--------------------------------------|--------|---------------------------------------|-------|------------------------------|----------------|
|      | ft - in                              | mm     | ft - in                               | mm    | ft <sup>2</sup>              | m <sup>2</sup> |
| 4836 | 3-5 11/16                            | (1059) | 1-1 11/16                             | (348) | 7.93                         | (0.74)         |
| 4840 | 3-5 11/16                            | (1059) | 1-3 11/16                             | (398) | 9.08                         | (0.84)         |
| 4844 | 3-5 11/16                            | (1059) | 1-5 11/16                             | (449) | 10.24                        | (0.95)         |
| 4848 | 3-5 11/16                            | (1059) | 1-7 11/16                             | (500) | 11.40                        | (1.06)         |
| 4852 | 3-5 11/16                            | (1059) | 1-9 11/16                             | (551) | 12.56                        | (1.17)         |
| 4856 | 3-5 11/16                            | (1059) | 1-11 11/16                            | (602) | 13.72                        | (1.27)         |
| 4860 | 3-5 11/16                            | (1059) | 2-1 11/16                             | (652) | 14.87                        | (1.38)         |
| 4864 | 3-5 11/16                            | (1059) | 2-3 11/16                             | (703) | 16.03                        | (1.49)         |
| 4868 | 3-5 11/16                            | (1059) | 2-5 11/16                             | (754) | 17.19                        | (1.60)         |
| 4872 | 3-5 11/16                            | (1059) | 2-7 11/16                             | (805) | 18.35                        | (1.70)         |
| 4876 | 3-5 11/16                            | (1059) | 2-9 11/16                             | (856) | 19.51                        | (1.81)         |
| 4880 | 3-5 11/16                            | (1059) | 2-11 11/16                            | (906) | 20.66                        | (1.92)         |
| 4884 | 3-5 11/16                            | (1059) | 3-1 11/16                             | (957) | 21.82                        | (2.03)         |
| 5436 | 3-11 11/16                           | (1211) | 1-1 11/16                             | (348) | 9.07                         | (0.84)         |
| 5440 | 3-11 11/16                           | (1211) | 1-3 11/16                             | (398) | 10.39                        | (0.97)         |
| 5444 | 3-11 11/16                           | (1211) | 1-5 11/16                             | (449) | 11.72                        | (1.09)         |
| 5448 | 3-11 11/16                           | (1211) | 1-7 11/16                             | (500) | 13.04                        | (1.21)         |
| 5452 | 3-11 11/16                           | (1211) | 1-9 11/16                             | (551) | 14.36                        | (1.33)         |
| 5456 | 3-11 11/16                           | (1211) | 1-11 11/16                            | (602) | 15.69                        | (1.46)         |
| 5460 | 3-11 11/16                           | (1211) | 2-1 11/16                             | (652) | 17.01                        | (1.58)         |
| 5464 | 3-11 11/16                           | (1211) | 2-3 11/16                             | (703) | 18.34                        | (1.70)         |
| 5468 | 3-11 11/16                           | (1211) | 2-5 11/16                             | (754) | 19.66                        | (1.83)         |
| 5472 | 3-11 11/16                           | (1211) | 2-7 11/16                             | (805) | 20.99                        | (1.95)         |
| 5476 | 3-11 11/16                           | (1211) | 2-9 11/16                             | (856) | 22.31                        | (2.07)         |
| 5480 | 3-11 11/16                           | (1211) | 2-11 11/16                            | (906) | 23.64                        | (2.20)         |
| 5484 | 3-11 11/16                           | (1211) | 3-1 11/16                             | (957) | 24.96                        | (2.32)         |

# Daylight Measurements: Cottage

| CN           | Daylight Opening Width<br>(per sash) |       | Daylight Opening Height<br>(per sash) |       | Daylight Opening<br>(both Sash) |                |
|--------------|--------------------------------------|-------|---------------------------------------|-------|---------------------------------|----------------|
|              | ft - in                              | mm    | ft - in                               | mm    | ft <sup>2</sup>                 | m <sup>2</sup> |
| 2236C Top    | 1-3 11/16                            | (398) | 0-10 13/16                            | (275) | 2.98                            | (0.28)         |
| 2236C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 2240C Top    | 1-3 11/16                            | (398) | 1-0 27/64                             | (315) | 3.42                            | (0.32)         |
| 2240C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 2244C Top    | 1-3 11/16                            | (398) | 1-2 1/32                              | (356) | 3.85                            | (0.36)         |
| 2244C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 2248C Top    | 1-3 11/16                            | (398) | 1-3 41/64                             | (397) | 4.29                            | (0.40)         |
| 2248C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 2252C Top    | 1-3 11/16                            | (398) | 1-5 1/4                               | (438) | 4.73                            | (0.44)         |
| 2252C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 2256C Top    | 1-3 11/16                            | (398) | 1-6 55/64                             | (479) | 5.16                            | (0.48)         |
| 2256C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 2260C Top    | 1-3 11/16                            | (398) | 1-8 15/32                             | (520) | 5.60                            | (0.52)         |
| 2260C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 2264C Top    | 1-3 11/16                            | (398) | 1-10 5/64                             | (561) | 6.03                            | (0.56)         |
| 2264C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 2268C Top    | 1-3 11/16                            | (398) | 1-11 11/16                            | (602) | 6.47                            | (0.60)         |
| 2268C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |
| 2636C Top    | 1-7 11/16                            | (500) | 0-10 13/16                            | (275) | 3.74                            | (0.35)         |
| 2636C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 2640C Top    | 1-7 11/16                            | (500) | 1-0 27/64                             | (315) | 4.29                            | (0.40)         |
| 2640C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 2644C Top    | 1-7 11/16                            | (500) | 1-2 1/32                              | (356) | 4.84                            | (0.45)         |
| 2644C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 2648C Top    | 1-7 11/16                            | (500) | 1-3 41/64                             | (397) | 5.38                            | (0.50)         |
| 2648C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 2652C Top    | 1-7 11/16                            | (500) | 1-5 1/4                               | (438) | 5.93                            | (0.55)         |
| 2652C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 2656C Top    | 1-7 11/16                            | (500) | 1-6 55/64                             | (479) | 6.48                            | (0.60)         |
| 2656C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 2660C Top    | 1-7 11/16                            | (500) | 1-8 15/32                             | (520) | 7.02                            | (0.65)         |
| 2660C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 2664C Top    | 1-7 11/16                            | (500) | 1-10 5/64                             | (561) | 7.57                            | (0.70)         |
| 2664C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 2668C Top    | 1-7 11/16                            | (500) | 1-11 11/16                            | (602) | 8.12                            | (0.75)         |
| 2668C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |
| 3036C Top    | 1-11 11/16                           | (602) | 0-10 13/16                            | (275) | 4.50                            | (0.42)         |
| 3036C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 3040C Top    | 1-11 11/16                           | (602) | 1-0 27/64                             | (315) | 5.16                            | (0.48)         |
| 3040C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 3044C Top    | 1-11 11/16                           | (602) | 1-2 1/32                              | (356) | 5.82                            | (0.54)         |
| 3044C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 3048C Top    | 1-11 11/16                           | (602) | 1-3 41/64                             | (397) | 6.48                            | (0.60)         |
| 3048C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 3052C Top    | 1-11 11/16                           | (602) | 1-5 1/4                               | (438) | 7.14                            | (0.66)         |
| 3052C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 3056C Top    | 1-11 11/16                           | (602) | 1-6 55/64                             | (479) | 7.79                            | (0.72)         |
| 3056C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 3060C Top    | 1-11 11/16                           | (602) | 1-8 15/32                             | (520) | 8.45                            | (0.79)         |
| 3060C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 3064C Top    | 1-11 11/16                           | (602) | 1-10 5/64                             | (561) | 9.11                            | (0.85)         |
| 3064C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 3068C Top    | 1-11 11/16                           | (602) | 1-11 11/16                            | (602) | 9.77                            | (0.91)         |
| 3068C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |

# Daylight Measurements: Cottage

| CN           | Daylight Opening Width<br>(per sash) |       | Daylight Opening Height<br>(per sash) |       | Daylight Opening<br>(both Sash) |                |
|--------------|--------------------------------------|-------|---------------------------------------|-------|---------------------------------|----------------|
|              | ft - in                              | mm    | ft - in                               | mm    | ft <sup>2</sup>                 | m <sup>2</sup> |
| 3236C Top    | 2-1 11/16                            | (652) | 0-10 13/16                            | (275) | 4.88                            | (0.45)         |
| 3236C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 3240C Top    | 2-1 11/16                            | (652) | 1-0 27/64                             | (315) | 5.60                            | (0.52)         |
| 3240C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 3244C Top    | 2-1 11/16                            | (652) | 1-2 1/32                              | (356) | 6.31                            | (0.59)         |
| 3244C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 3248C Top    | 2-1 11/16                            | (652) | 1-3 41/64                             | (397) | 7.02                            | (0.65)         |
| 3248C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 3252C Top    | 2-1 11/16                            | (652) | 1-5 1/4                               | (438) | 7.74                            | (0.72)         |
| 3252C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 3256C Top    | 2-1 11/16                            | (652) | 1-6 55/64                             | (479) | 8.45                            | (0.79)         |
| 3256C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 3260C Top    | 2-1 11/16                            | (652) | 1-8 15/32                             | (520) | 9.16                            | (0.85)         |
| 3260C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 3264C Top    | 2-1 11/16                            | (652) | 1-10 5/64                             | (561) | 9.88                            | (0.92)         |
| 3264C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 3268C Top    | 2-1 11/16                            | (652) | 1-11 11/16                            | (602) | 10.59                           | (0.98)         |
| 3268C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |
| 3436C Top    | 2-3 11/16                            | (703) | 0-10 13/16                            | (275) | 5.26                            | (0.49)         |
| 3436C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 3440C Top    | 2-3 11/16                            | (703) | 1-0 27/64                             | (315) | 6.03                            | (0.56)         |
| 3440C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 3444C Top    | 2-3 11/16                            | (703) | 1-2 1/32                              | (356) | 6.80                            | (0.63)         |
| 3444C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 3448C Top    | 2-3 11/16                            | (703) | 1-3 41/64                             | (397) | 7.57                            | (0.70)         |
| 3448C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 3452C Top    | 2-3 11/16                            | (703) | 1-5 1/4                               | (438) | 8.34                            | (0.77)         |
| 3452C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 3456C Top    | 2-3 11/16                            | (703) | 1-6 55/64                             | (479) | 9.11                            | (0.85)         |
| 3456C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 3460C Top    | 2-3 11/16                            | (703) | 1-8 15/32                             | (520) | 9.88                            | (0.92)         |
| 3460C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 3464C Top    | 2-3 11/16                            | (703) | 1-10 5/64                             | (561) | 10.65                           | (0.99)         |
| 3464C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 3468C Top    | 2-3 11/16                            | (703) | 1-11 11/16                            | (602) | 11.42                           | (1.06)         |
| 3468C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |
| 3636C Top    | 2-5 11/16                            | (754) | 0-10 13/16                            | (275) | 5.64                            | (0.52)         |
| 3636C Bottom |                                      |       | 1-4 9/16                              | (421) |                                 |                |
| 3640C Top    | 2-5 11/16                            | (754) | 1-0 27/64                             | (315) | 6.47                            | (0.60)         |
| 3640C Bottom |                                      |       | 1-6 61/64                             | (481) |                                 |                |
| 3644C Top    | 2-5 11/16                            | (754) | 1-2 1/32                              | (356) | 7.29                            | (0.68)         |
| 3644C Bottom |                                      |       | 1-9 11/32                             | (542) |                                 |                |
| 3648C Top    | 2-5 11/16                            | (754) | 1-3 41/64                             | (397) | 8.12                            | (0.75)         |
| 3648C Bottom |                                      |       | 1-11 47/64                            | (603) |                                 |                |
| 3652C Top    | 2-5 11/16                            | (754) | 1-5 1/4                               | (438) | 8.94                            | (0.83)         |
| 3652C Bottom |                                      |       | 2-2 1/8                               | (664) |                                 |                |
| 3656C Top    | 2-5 11/16                            | (754) | 1-6 55/64                             | (479) | 9.77                            | (0.91)         |
| 3656C Bottom |                                      |       | 2-4 33/64                             | (724) |                                 |                |
| 3660C Top    | 2-5 11/16                            | (754) | 1-8 15/32                             | (520) | 10.59                           | (0.98)         |
| 3660C Bottom |                                      |       | 2-6 29/32                             | (785) |                                 |                |
| 3664C Top    | 2-5 11/16                            | (754) | 1-10 5/64                             | (561) | 11.42                           | (1.06)         |
| 3664C Bottom |                                      |       | 2-9 19/64                             | (846) |                                 |                |
| 3668C Top    | 2-5 11/16                            | (754) | 1-11 11/16                            | (602) | 12.24                           | (1.14)         |
| 3668C Bottom |                                      |       | 2-11 11/16                            | (906) |                                 |                |

# Daylight Measurements: Cottage

| CN           | Daylight Opening Width<br>(per sash) |        | Daylight Opening Height<br>(per sash) |       | Daylight Opening<br>(both Sash) |                |
|--------------|--------------------------------------|--------|---------------------------------------|-------|---------------------------------|----------------|
|              | ft - in                              | mm     | ft - in                               | mm    | ft <sup>2</sup>                 | m <sup>2</sup> |
| 3836C Top    | 2-7 11/16                            | (805)  | 0-10 13/16                            | (275) | 6.02                            | (0.56)         |
| 3836C Bottom |                                      |        | 1-4 9/16                              | (421) |                                 |                |
| 3840C Top    | 2-7 11/16                            | (805)  | 1-0 27/64                             | (315) | 6.90                            | (0.64)         |
| 3840C Bottom |                                      |        | 1-6 61/64                             | (481) |                                 |                |
| 3844C Top    | 2-7 11/16                            | (805)  | 1-2 1/32                              | (356) | 7.78                            | (0.72)         |
| 3844C Bottom |                                      |        | 1-9 11/32                             | (542) |                                 |                |
| 3848C Top    | 2-7 11/16                            | (805)  | 1-3 41/64                             | (397) | 8.66                            | (0.80)         |
| 3848C Bottom |                                      |        | 1-11 47/64                            | (603) |                                 |                |
| 3852C Top    | 2-7 11/16                            | (805)  | 1-5 1/4                               | (438) | 9.55                            | (0.89)         |
| 3852C Bottom |                                      |        | 2-2 1/8                               | (664) |                                 |                |
| 3856C Top    | 2-7 11/16                            | (805)  | 1-6 55/64                             | (479) | 10.43                           | (0.97)         |
| 3856C Bottom |                                      |        | 2-4 33/64                             | (724) |                                 |                |
| 3860C Top    | 2-7 11/16                            | (805)  | 1-8 15/32                             | (520) | 11.31                           | (1.05)         |
| 3860C Bottom |                                      |        | 2-6 29/32                             | (785) |                                 |                |
| 3864C Top    | 2-7 11/16                            | (805)  | 1-10 5/64                             | (561) | 12.19                           | (1.13)         |
| 3864C Bottom |                                      |        | 2-9 19/64                             | (846) |                                 |                |
| 3868C Top    | 2-7 11/16                            | (805)  | 1-11 11/16                            | (602) | 13.07                           | (1.21)         |
| 3868C Bottom |                                      |        | 2-11 11/16                            | (906) |                                 |                |
| 4236C Top    | 2-11 11/16                           | (906)  | 0-10 13/16                            | (275) | 6.78                            | (0.63)         |
| 4236C Bottom |                                      |        | 1-4 9/16                              | (421) |                                 |                |
| 4240C Top    | 2-11 11/16                           | (906)  | 1-0 27/64                             | (315) | 7.78                            | (0.72)         |
| 4240C Bottom |                                      |        | 1-6 61/64                             | (481) |                                 |                |
| 4244C Top    | 2-11 11/16                           | (906)  | 1-2 1/32                              | (356) | 8.77                            | (0.81)         |
| 4244C Bottom |                                      |        | 1-9 11/32                             | (542) |                                 |                |
| 4248C Top    | 2-11 11/16                           | (906)  | 1-3 41/64                             | (397) | 9.76                            | (0.91)         |
| 4248C Bottom |                                      |        | 1-11 47/64                            | (603) |                                 |                |
| 4252C Top    | 2-11 11/16                           | (906)  | 1-5 1/4                               | (438) | 10.75                           | (1.00)         |
| 4252C Bottom |                                      |        | 2-2 1/8                               | (664) |                                 |                |
| 4256C Top    | 2-11 11/16                           | (906)  | 1-6 55/64                             | (479) | 11.74                           | (1.09)         |
| 4256C Bottom |                                      |        | 2-4 33/64                             | (724) |                                 |                |
| 4260C Top    | 2-11 11/16                           | (906)  | 1-8 15/32                             | (520) | 12.73                           | (1.18)         |
| 4260C Bottom |                                      |        | 2-6 29/32                             | (785) |                                 |                |
| 4264C Top    | 2-11 11/16                           | (906)  | 1-10 5/64                             | (561) | 13.72                           | (1.28)         |
| 4264C Bottom |                                      |        | 2-9 19/64                             | (846) |                                 |                |
| 4268C Top    | 2-11 11/16                           | (906)  | 1-11 11/16                            | (602) | 14.72                           | (1.37)         |
| 4268C Bottom |                                      |        | 2-11 11/16                            | (906) |                                 |                |
| 4836C Top    | 3-5 11/16                            | (1059) | 0-10 13/16                            | (275) | 7.93                            | (0.74)         |
| 4836C Bottom |                                      |        | 1-4 9/16                              | (421) |                                 |                |
| 4840C Top    | 3-5 11/16                            | (1059) | 1-0 27/64                             | (315) | 9.08                            | (0.84)         |
| 4840C Bottom |                                      |        | 1-6 61/64                             | (481) |                                 |                |
| 4844C Top    | 3-5 11/16                            | (1059) | 1-2 1/32                              | (356) | 10.24                           | (0.95)         |
| 4844C Bottom |                                      |        | 1-9 11/32                             | (542) |                                 |                |
| 4848C Top    | 3-5 11/16                            | (1059) | 1-3 41/64                             | (397) | 11.40                           | (1.06)         |
| 4848C Bottom |                                      |        | 1-11 47/64                            | (603) |                                 |                |
| 4852C Top    | 3-5 11/16                            | (1059) | 1-5 1/4                               | (438) | 12.56                           | (1.17)         |
| 4852C Bottom |                                      |        | 2-2 1/8                               | (664) |                                 |                |
| 4856C Top    | 3-5 11/16                            | (1059) | 1-6 55/64                             | (479) | 13.72                           | (1.27)         |
| 4856C Bottom |                                      |        | 2-4 33/64                             | (724) |                                 |                |
| 4860C Top    | 3-5 11/16                            | (1059) | 1-8 15/32                             | (520) | 14.87                           | (1.38)         |
| 4860C Bottom |                                      |        | 2-6 29/32                             | (785) |                                 |                |
| 4864C Top    | 3-5 11/16                            | (1059) | 1-10 5/64                             | (561) | 16.03                           | (1.49)         |
| 4864C Bottom |                                      |        | 2-9 19/64                             | (846) |                                 |                |
| 4868C Top    | 3-5 11/16                            | (1059) | 1-11 11/16                            | (602) | 17.19                           | (1.60)         |
| 4868C Bottom |                                      |        | 2-11 11/16                            | (906) |                                 |                |

## Daylight Measurements: Cottage

| CN           | Daylight Opening Width<br>(per sash) |        | Daylight Opening Height<br>(per sash) |       | Daylight Opening<br>(both Sash) |                |
|--------------|--------------------------------------|--------|---------------------------------------|-------|---------------------------------|----------------|
|              | ft - in                              | mm     | ft - in                               | mm    | ft <sup>2</sup>                 | m <sup>2</sup> |
| 5436C Top    | 3-11 11/16                           | (1211) | 0-10 13/16                            | (275) | 9.07                            | (0.84)         |
| 5436C Bottom |                                      |        | 1-4 9/16                              | (421) |                                 |                |
| 5440C Top    | 3-11 11/16                           | (1211) | 1-0 27/64                             | (315) | 10.39                           | (0.97)         |
| 5440C Bottom |                                      |        | 1-6 61/64                             | (481) |                                 |                |
| 5444C Top    | 3-11 11/16                           | (1211) | 1-2 1/32                              | (356) | 11.72                           | (1.09)         |
| 5444C Bottom |                                      |        | 1-9 11/32                             | (542) |                                 |                |
| 5448C Top    | 3-11 11/16                           | (1211) | 1-3 41/64                             | (397) | 13.04                           | (1.21)         |
| 5448C Bottom |                                      |        | 1-11 47/64                            | (603) |                                 |                |
| 5452C Top    | 3-11 11/16                           | (1211) | 1-5 1/4                               | (438) | 14.36                           | (1.33)         |
| 5452C Bottom |                                      |        | 2-2 1/8                               | (664) |                                 |                |
| 5456C Top    | 3-11 11/16                           | (1211) | 1-6 55/64                             | (479) | 15.69                           | (1.46)         |
| 5456C Bottom |                                      |        | 2-4 33/64                             | (724) |                                 |                |
| 5460C Top    | 3-11 11/16                           | (1211) | 1-8 15/32                             | (520) | 17.01                           | (1.58)         |
| 5460C Bottom |                                      |        | 2-6 29/32                             | (785) |                                 |                |
| 5464C Top    | 3-11 11/16                           | (1211) | 1-10 5/64                             | (561) | 18.34                           | (1.70)         |
| 5464C Bottom |                                      |        | 2-9 19/64                             | (846) |                                 |                |
| 5468C Top    | 3-11 11/16                           | (1211) | 1-11 11/16                            | (602) | 19.66                           | (1.83)         |
| 5468C Bottom |                                      |        | 2-11 11/16                            | (906) |                                 |                |

**Daylight Measurements: Transom**

| CN   | Daylight Opening Width |        | Daylight Opening Height |       | Daylight Opening |                |
|------|------------------------|--------|-------------------------|-------|------------------|----------------|
|      | ft - in                | mm     | ft - in                 | mm    | ft <sup>2</sup>  | m <sup>2</sup> |
| 2216 | 1-3 11/16              | (398)  | 0-9 11/16               | (246) | 1.06             | (0.10)         |
| 2616 | 1-7 11/16              | (500)  | 0-9 11/16               | (246) | 1.32             | (0.12)         |
| 3016 | 1-9 11/16              | (551)  | 0-9 11/16               | (246) | 1.46             | (0.14)         |
| 3216 | 1-11 11/16             | (602)  | 0-9 11/16               | (246) | 1.59             | (0.15)         |
| 3416 | 2-3 11/16              | (703)  | 0-9 11/16               | (246) | 1.86             | (0.17)         |
| 3616 | 2-5 11/16              | (754)  | 0-9 11/16               | (246) | 2.00             | (0.19)         |
| 3816 | 2-7 11/16              | (805)  | 0-9 11/16               | (246) | 2.13             | (0.20)         |
| 4216 | 2-11 11/16             | (906)  | 0-9 11/16               | (246) | 2.40             | (0.22)         |
| 4816 | 3-5 11/16              | (1059) | 0-9 11/16               | (246) | 2.80             | (0.26)         |
| 5016 | 3-7 11/16              | (1110) | 0-9 11/16               | (246) | 2.94             | (0.27)         |
| 5416 | 3-11 11/16             | (1211) | 0-9 11/16               | (246) | 3.21             | (0.30)         |
| 6216 | 4-7 11/16              | (1414) | 0-9 11/16               | (246) | 3.75             | (0.35)         |
| 2224 | 1-3 11/16              | (398)  | 1-5 11/16               | (449) | 1.93             | (0.18)         |
| 2624 | 1-7 11/16              | (500)  | 1-5 11/16               | (449) | 2.42             | (0.22)         |
| 3024 | 1-9 11/16              | (551)  | 1-5 11/16               | (449) | 2.66             | (0.25)         |
| 3224 | 1-11 11/16             | (602)  | 1-5 11/16               | (449) | 2.91             | (0.27)         |
| 3424 | 2-3 11/16              | (703)  | 1-5 11/16               | (449) | 3.40             | (0.32)         |
| 3624 | 2-5 11/16              | (754)  | 1-5 11/16               | (449) | 3.65             | (0.34)         |
| 3824 | 2-7 11/16              | (805)  | 1-5 11/16               | (449) | 3.89             | (0.36)         |
| 4224 | 2-11 11/16             | (906)  | 1-5 11/16               | (449) | 4.38             | (0.41)         |
| 4824 | 3-5 11/16              | (1059) | 1-5 11/16               | (449) | 5.12             | (0.48)         |
| 5024 | 3-7 11/16              | (1110) | 1-5 11/16               | (449) | 5.37             | (0.50)         |
| 5424 | 3-11 11/16             | (1211) | 1-5 11/16               | (449) | 5.86             | (0.54)         |
| 6224 | 4-7 11/16              | (1414) | 1-5 11/16               | (449) | 6.84             | (0.64)         |

## Daylight Measurement: Picture

| CN*  | Daylight Opening Width |       | Daylight Opening Height |        | Daylight Opening |                |
|------|------------------------|-------|-------------------------|--------|------------------|----------------|
|      | ft - in                | mm    | ft - in                 | mm     | ft <sup>2</sup>  | m <sup>2</sup> |
| 2224 | 1-3 11/16              | (398) | 1-5 11/16               | (449)  | 1.93             | (0.18)         |
| 2236 | 1-3 11/16              | (398) | 2-5 11/16               | (754)  | 3.23             | (0.30)         |
| 2240 | 1-3 11/16              | (398) | 2-9 11/16               | (856)  | 3.67             | (0.34)         |
| 2244 | 1-3 11/16              | (398) | 3-1 11/16               | (957)  | 4.11             | (0.38)         |
| 2248 | 1-3 11/16              | (398) | 3-5 11/16               | (1059) | 4.54             | (0.42)         |
| 2252 | 1-3 11/16              | (398) | 3-9 11/16               | (1160) | 4.98             | (0.46)         |
| 2256 | 1-3 11/16              | (398) | 4-1 11/16               | (1262) | 5.41             | (0.50)         |
| 2260 | 1-3 11/16              | (398) | 4-5 11/16               | (1364) | 5.85             | (0.54)         |
| 2264 | 1-3 11/16              | (398) | 4-9 11/16               | (1465) | 6.28             | (0.58)         |
| 2268 | 1-3 11/16              | (398) | 5-1 11/16               | (1567) | 6.72             | (0.62)         |
| 2272 | 1-3 11/16              | (398) | 5-5 11/16               | (1668) | 7.16             | (0.66)         |
| 2276 | 1-3 11/16              | (398) | 5-9 11/16               | (1770) | 7.59             | (0.71)         |
| 2280 | 1-3 11/16              | (398) | 6-1 11/16               | (1872) | 8.03             | (0.75)         |
| 2284 | 1-3 11/16              | (398) | 6-5 11/16               | (1973) | 8.46             | (0.79)         |
| 2624 | 1-7 11/16              | (500) | 1-5 11/16               | (449)  | 2.42             | (0.22)         |
| 2636 | 1-7 11/16              | (500) | 2-5 11/16               | (754)  | 4.06             | (0.38)         |
| 2640 | 1-7 11/16              | (500) | 2-9 11/16               | (856)  | 4.61             | (0.43)         |
| 2644 | 1-7 11/16              | (500) | 3-1 11/16               | (957)  | 5.15             | (0.48)         |
| 2648 | 1-7 11/16              | (500) | 3-5 11/16               | (1059) | 5.70             | (0.53)         |
| 2652 | 1-7 11/16              | (500) | 3-9 11/16               | (1160) | 6.25             | (0.58)         |
| 2656 | 1-7 11/16              | (500) | 4-1 11/16               | (1262) | 6.79             | (0.63)         |
| 2660 | 1-7 11/16              | (500) | 4-5 11/16               | (1364) | 7.34             | (0.68)         |
| 2664 | 1-7 11/16              | (500) | 4-9 11/16               | (1465) | 7.89             | (0.73)         |
| 2668 | 1-7 11/16              | (500) | 5-1 11/16               | (1567) | 8.43             | (0.78)         |
| 2672 | 1-7 11/16              | (500) | 5-5 11/16               | (1668) | 8.98             | (0.83)         |
| 2676 | 1-7 11/16              | (500) | 5-9 11/16               | (1770) | 9.53             | (0.89)         |
| 2680 | 1-7 11/16              | (500) | 6-1 11/16               | (1872) | 10.07            | (0.94)         |
| 2684 | 1-7 11/16              | (500) | 6-5 11/16               | (1973) | 10.62            | (0.99)         |
| 3024 | 1-11 11/16             | (602) | 1-5 11/16               | (449)  | 2.91             | (0.27)         |
| 3036 | 1-11 11/16             | (602) | 2-5 11/16               | (754)  | 4.88             | (0.45)         |
| 3040 | 1-11 11/16             | (602) | 2-9 11/16               | (856)  | 5.54             | (0.51)         |
| 3044 | 1-11 11/16             | (602) | 3-1 11/16               | (957)  | 6.20             | (0.58)         |
| 3048 | 1-11 11/16             | (602) | 3-5 11/16               | (1059) | 6.86             | (0.64)         |
| 3052 | 1-11 11/16             | (602) | 3-9 11/16               | (1160) | 7.52             | (0.70)         |
| 3056 | 1-11 11/16             | (602) | 4-1 11/16               | (1262) | 8.17             | (0.76)         |
| 3060 | 1-11 11/16             | (602) | 4-5 11/16               | (1364) | 8.83             | (0.82)         |
| 3064 | 1-11 11/16             | (602) | 4-9 11/16               | (1465) | 9.49             | (0.88)         |
| 3068 | 1-11 11/16             | (602) | 5-1 11/16               | (1567) | 10.15            | (0.94)         |
| 3072 | 1-11 11/16             | (602) | 5-5 11/16               | (1668) | 10.81            | (1.00)         |
| 3076 | 1-11 11/16             | (602) | 5-9 11/16               | (1770) | 11.46            | (1.07)         |
| 3080 | 1-11 11/16             | (602) | 6-1 11/16               | (1872) | 12.12            | (1.13)         |
| 3084 | 1-11 11/16             | (602) | 6-5 11/16               | (1973) | 12.78            | (1.19)         |
| 3224 | 2-1 11/16              | (652) | 1-5 11/16               | (449)  | 3.16             | (0.29)         |
| 3236 | 2-1 11/16              | (652) | 2-5 11/16               | (754)  | 5.30             | (0.49)         |
| 3240 | 2-1 11/16              | (652) | 2-9 11/16               | (856)  | 6.01             | (0.56)         |
| 3244 | 2-1 11/16              | (652) | 3-1 11/16               | (957)  | 6.72             | (0.62)         |
| 3248 | 2-1 11/16              | (652) | 3-5 11/16               | (1059) | 7.44             | (0.69)         |
| 3252 | 2-1 11/16              | (652) | 3-9 11/16               | (1160) | 8.15             | (0.76)         |
| 3256 | 2-1 11/16              | (652) | 4-1 11/16               | (1262) | 8.86             | (0.82)         |
| 3260 | 2-1 11/16              | (652) | 4-5 11/16               | (1364) | 9.58             | (0.89)         |
| 3264 | 2-1 11/16              | (652) | 4-9 11/16               | (1465) | 10.29            | (0.96)         |
| 3268 | 2-1 11/16              | (652) | 5-1 11/16               | (1567) | 11.00            | (1.02)         |
| 3272 | 2-1 11/16              | (652) | 5-5 11/16               | (1668) | 11.72            | (1.09)         |
| 3276 | 2-1 11/16              | (652) | 5-9 11/16               | (1770) | 12.43            | (1.15)         |
| 3280 | 2-1 11/16              | (652) | 6-1 11/16               | (1872) | 13.15            | (1.22)         |
| 3284 | 2-1 11/16              | (652) | 6-5 11/16               | (1973) | 13.86            | (1.29)         |
| 3424 | 2-3 11/16              | (703) | 1-5 11/16               | (449)  | 3.40             | (0.32)         |
| 3436 | 2-3 11/16              | (703) | 2-5 11/16               | (754)  | 5.71             | (0.53)         |
| 3440 | 2-3 11/16              | (703) | 2-9 11/16               | (856)  | 6.48             | (0.60)         |
| 3444 | 2-3 11/16              | (703) | 3-1 11/16               | (957)  | 7.25             | (0.67)         |
| 3448 | 2-3 11/16              | (703) | 3-5 11/16               | (1059) | 8.02             | (0.74)         |
| 3452 | 2-3 11/16              | (703) | 3-9 11/16               | (1160) | 8.78             | (0.82)         |
| 3456 | 2-3 11/16              | (703) | 4-1 11/16               | (1262) | 9.55             | (0.89)         |
| 3460 | 2-3 11/16              | (703) | 4-5 11/16               | (1364) | 10.32            | (0.96)         |
| 3464 | 2-3 11/16              | (703) | 4-9 11/16               | (1465) | 11.09            | (1.03)         |
| 3468 | 2-3 11/16              | (703) | 5-1 11/16               | (1567) | 11.86            | (1.10)         |
| 3472 | 2-3 11/16              | (703) | 5-5 11/16               | (1668) | 12.63            | (1.17)         |
| 3476 | 2-3 11/16              | (703) | 5-9 11/16               | (1770) | 13.40            | (1.24)         |
| 3480 | 2-3 11/16              | (703) | 6-1 11/16               | (1872) | 14.17            | (1.32)         |
| 3484 | 2-3 11/16              | (703) | 6-5 11/16               | (1973) | 14.94            | (1.39)         |
| 3624 | 2-5 11/16              | (754) | 1-5 11/16               | (449)  | 3.65             | (0.34)         |
| 3636 | 2-5 11/16              | (754) | 2-5 11/16               | (754)  | 6.12             | (0.57)         |
| 3640 | 2-5 11/16              | (754) | 2-9 11/16               | (856)  | 6.95             | (0.65)         |
| 3644 | 2-5 11/16              | (754) | 3-1 11/16               | (957)  | 7.77             | (0.72)         |
| 3648 | 2-5 11/16              | (754) | 3-5 11/16               | (1059) | 8.59             | (0.80)         |
| 3652 | 2-5 11/16              | (754) | 3-9 11/16               | (1160) | 9.42             | (0.88)         |
| 3656 | 2-5 11/16              | (754) | 4-1 11/16               | (1262) | 10.24            | (0.95)         |
| 3660 | 2-5 11/16              | (754) | 4-5 11/16               | (1364) | 11.07            | (1.03)         |
| 3664 | 2-5 11/16              | (754) | 4-9 11/16               | (1465) | 11.89            | (1.10)         |
| 3668 | 2-5 11/16              | (754) | 5-1 11/16               | (1567) | 12.72            | (1.18)         |
| 3672 | 2-5 11/16              | (754) | 5-5 11/16               | (1668) | 13.54            | (1.26)         |
| 3676 | 2-5 11/16              | (754) | 5-9 11/16               | (1770) | 14.37            | (1.33)         |
| 3680 | 2-5 11/16              | (754) | 6-1 11/16               | (1872) | 15.19            | (1.41)         |
| 3684 | 2-5 11/16              | (754) | 6-5 11/16               | (1973) | 16.02            | (1.49)         |

# Daylight Measurement: Picture

| CN   | Daylight Opening Width |        | Daylight Opening Height |        | Daylight Opening |                |
|------|------------------------|--------|-------------------------|--------|------------------|----------------|
|      | ft - in                | mm     | ft - in                 | mm     | ft <sup>2</sup>  | m <sup>2</sup> |
| 3824 | 2-7 11/16              | (805)  | 1-5 11/16               | (449)  | 3.89             | (0.36)         |
| 3836 | 2-7 11/16              | (805)  | 2-5 11/16               | (754)  | 6.53             | (0.61)         |
| 3840 | 2-7 11/16              | (805)  | 2-9 11/16               | (856)  | 7.41             | (0.69)         |
| 3844 | 2-7 11/16              | (805)  | 3-1 11/16               | (957)  | 8.29             | (0.77)         |
| 3848 | 2-7 11/16              | (805)  | 3-5 11/16               | (1059) | 9.17             | (0.85)         |
| 3852 | 2-7 11/16              | (805)  | 3-9 11/16               | (1160) | 10.05            | (0.93)         |
| 3856 | 2-7 11/16              | (805)  | 4-1 11/16               | (1262) | 10.93            | (1.02)         |
| 3860 | 2-7 11/16              | (805)  | 4-5 11/16               | (1364) | 11.81            | (1.10)         |
| 3864 | 2-7 11/16              | (805)  | 4-9 11/16               | (1465) | 12.69            | (1.18)         |
| 3868 | 2-7 11/16              | (805)  | 5-1 11/16               | (1567) | 13.57            | (1.26)         |
| 3872 | 2-7 11/16              | (805)  | 5-5 11/16               | (1668) | 14.46            | (1.34)         |
| 3876 | 2-7 11/16              | (805)  | 5-9 11/16               | (1770) | 15.34            | (1.42)         |
| 3880 | 2-7 11/16              | (805)  | 6-1 11/16               | (1872) | 16.22            | (1.51)         |
| 3884 | 2-7 11/16              | (805)  | 6-5 11/16               | (1973) | 17.10            | (1.59)         |
| 4224 | 2-11 11/16             | (906)  | 1-5 11/16               | (449)  | 4.38             | (0.41)         |
| 4236 | 2-11 11/16             | (906)  | 2-5 11/16               | (754)  | 7.36             | (0.68)         |
| 4240 | 2-11 11/16             | (906)  | 2-9 11/16               | (856)  | 8.35             | (0.78)         |
| 4244 | 2-11 11/16             | (906)  | 3-1 11/16               | (957)  | 9.34             | (0.87)         |
| 4248 | 2-11 11/16             | (906)  | 3-5 11/16               | (1059) | 10.33            | (0.96)         |
| 4252 | 2-11 11/16             | (906)  | 3-9 11/16               | (1160) | 11.32            | (1.05)         |
| 4256 | 2-11 11/16             | (906)  | 4-1 11/16               | (1262) | 12.31            | (1.14)         |
| 4260 | 2-11 11/16             | (906)  | 4-5 11/16               | (1364) | 13.31            | (1.24)         |
| 4264 | 2-11 11/16             | (906)  | 4-9 11/16               | (1465) | 14.30            | (1.33)         |
| 4268 | 2-11 11/16             | (906)  | 5-1 11/16               | (1567) | 15.29            | (1.42)         |
| 4272 | 2-11 11/16             | (906)  | 5-5 11/16               | (1668) | 16.28            | (1.51)         |
| 4276 | 2-11 11/16             | (906)  | 5-9 11/16               | (1770) | 17.27            | (1.60)         |
| 4280 | 2-11 11/16             | (906)  | 6-1 11/16               | (1872) | 18.26            | (1.70)         |
| 4284 | 2-11 11/16             | (906)  | 6-5 11/16               | (1973) | 19.25            | (1.79)         |
| 4824 | 3-5 11/16              | (1059) | 1-5 11/16               | (449)  | 5.12             | (0.48)         |
| 4836 | 3-5 11/16              | (1059) | 2-5 11/16               | (754)  | 8.59             | (0.80)         |
| 4840 | 3-5 11/16              | (1059) | 2-9 11/16               | (856)  | 9.75             | (0.91)         |
| 4844 | 3-5 11/16              | (1059) | 3-1 11/16               | (957)  | 10.91            | (1.01)         |
| 4848 | 3-5 11/16              | (1059) | 3-5 11/16               | (1059) | 12.07            | (1.12)         |
| 4852 | 3-5 11/16              | (1059) | 3-9 11/16               | (1160) | 13.23            | (1.23)         |
| 4856 | 3-5 11/16              | (1059) | 4-1 11/16               | (1262) | 14.38            | (1.34)         |
| 4860 | 3-5 11/16              | (1059) | 4-5 11/16               | (1364) | 15.54            | (1.44)         |
| 4864 | 3-5 11/16              | (1059) | 4-9 11/16               | (1465) | 16.70            | (1.55)         |
| 4868 | 3-5 11/16              | (1059) | 5-1 11/16               | (1567) | 17.86            | (1.66)         |
| 4872 | 3-5 11/16              | (1059) | 5-5 11/16               | (1668) | 19.02            | (1.77)         |
| 4876 | 3-5 11/16              | (1059) | 5-9 11/16               | (1770) | 20.17            | (1.87)         |
| 4880 | 3-5 11/16              | (1059) | 6-1 11/16               | (1872) | 21.33            | (1.98)         |
| 4884 | 3-5 11/16              | (1059) | 6-5 11/16               | (1973) | 22.49            | (2.09)         |

| CN   | Daylight Opening Width |        | Daylight Opening Height |        | Daylight Opening |                |
|------|------------------------|--------|-------------------------|--------|------------------|----------------|
|      | ft - in                | mm     | ft - in                 | mm     | ft <sup>2</sup>  | m <sup>2</sup> |
| 5024 | 3-7 11/16              | (1110) | 1-5 11/16               | (449)  | 5.37             | (0.50)         |
| 5036 | 3-7 11/16              | (1110) | 2-5 11/16               | (754)  | 9.01             | (0.84)         |
| 5040 | 3-7 11/16              | (1110) | 2-9 11/16               | (856)  | 10.22            | (0.95)         |
| 5044 | 3-7 11/16              | (1110) | 3-1 11/16               | (957)  | 11.43            | (1.06)         |
| 5048 | 3-7 11/16              | (1110) | 3-5 11/16               | (1059) | 12.65            | (1.18)         |
| 5052 | 3-7 11/16              | (1110) | 3-9 11/16               | (1160) | 13.86            | (1.29)         |
| 5056 | 3-7 11/16              | (1110) | 4-1 11/16               | (1262) | 15.07            | (1.40)         |
| 5060 | 3-7 11/16              | (1110) | 4-5 11/16               | (1364) | 16.29            | (1.51)         |
| 5064 | 3-7 11/16              | (1110) | 4-9 11/16               | (1465) | 17.50            | (1.63)         |
| 5068 | 3-7 11/16              | (1110) | 5-1 11/16               | (1567) | 18.72            | (1.74)         |
| 5072 | 3-7 11/16              | (1110) | 5-5 11/16               | (1668) | 19.93            | (1.85)         |
| 5076 | 3-7 11/16              | (1110) | 5-9 11/16               | (1770) | 21.14            | (1.96)         |
| 5080 | 3-7 11/16              | (1110) | 6-1 11/16               | (1872) | 22.36            | (2.08)         |
| 5084 | 3-7 11/16              | (1110) | 6-5 11/16               | (1973) | 23.57            | (2.19)         |
| 5424 | 3-11 11/16             | (1211) | 1-5 11/16               | (449)  | 5.86             | (0.54)         |
| 5436 | 3-11 11/16             | (1211) | 2-5 11/16               | (754)  | 9.83             | (0.91)         |
| 5440 | 3-11 11/16             | (1211) | 2-9 11/16               | (856)  | 11.16            | (1.04)         |
| 5444 | 3-11 11/16             | (1211) | 3-1 11/16               | (957)  | 12.48            | (1.16)         |
| 5448 | 3-11 11/16             | (1211) | 3-5 11/16               | (1059) | 13.81            | (1.28)         |
| 5452 | 3-11 11/16             | (1211) | 3-9 11/16               | (1160) | 15.13            | (1.41)         |
| 5456 | 3-11 11/16             | (1211) | 4-1 11/16               | (1262) | 16.46            | (1.53)         |
| 5460 | 3-11 11/16             | (1211) | 4-5 11/16               | (1364) | 17.78            | (1.65)         |
| 5464 | 3-11 11/16             | (1211) | 4-9 11/16               | (1465) | 19.10            | (1.77)         |
| 5468 | 3-11 11/16             | (1211) | 5-1 11/16               | (1567) | 20.43            | (1.90)         |
| 5472 | 3-11 11/16             | (1211) | 5-5 11/16               | (1668) | 21.75            | (2.02)         |
| 5476 | 3-11 11/16             | (1211) | 5-9 11/16               | (1770) | 23.08            | (2.14)         |
| 5480 | 3-11 11/16             | (1211) | 6-1 11/16               | (1872) | 24.40            | (2.27)         |
| 5484 | 3-11 11/16             | (1211) | 6-5 11/16               | (1973) | 25.73            | (2.39)         |
| 6224 | 4-7 11/16              | (1414) | 1-5 11/16               | (449)  | 6.84             | (0.64)         |
| 6236 | 4-7 11/16              | (1414) | 2-5 11/16               | (754)  | 11.48            | (1.07)         |
| 6240 | 4-7 11/16              | (1414) | 2-9 11/16               | (856)  | 13.03            | (1.21)         |
| 6244 | 4-7 11/16              | (1414) | 3-1 11/16               | (957)  | 14.57            | (1.35)         |
| 6248 | 4-7 11/16              | (1414) | 3-5 11/16               | (1059) | 16.12            | (1.50)         |
| 6252 | 4-7 11/16              | (1414) | 3-9 11/16               | (1160) | 17.67            | (1.64)         |
| 6256 | 4-7 11/16              | (1414) | 4-1 11/16               | (1262) | 19.22            | (1.79)         |
| 6260 | 4-7 11/16              | (1414) | 4-5 11/16               | (1364) | 20.76            | (1.93)         |
| 6264 | 4-7 11/16              | (1414) | 4-9 11/16               | (1465) | 22.31            | (2.07)         |
| 6268 | 4-7 11/16              | (1414) | 5-1 11/16               | (1567) | 23.86            | (2.22)         |
| 6272 | 4-7 11/16              | (1414) | 5-5 11/16               | (1668) | 25.40            | (2.36)         |
| 6276 | 4-7 11/16              | (1414) | 5-9 11/16               | (1770) | 26.95            | (2.50)         |

## Minimum and Maximum Guidelines

| Minimum and Maximum Guidelines |            |       |            |       |           |        |            |        |                |            |
|--------------------------------|------------|-------|------------|-------|-----------|--------|------------|--------|----------------|------------|
| Unit Type                      | Frame Size |       |            |       |           |        |            |        | Max Glass Size |            |
|                                | Min Width  |       | Min Height |       | Max Width |        | Max Height |        |                |            |
|                                | in         | mm    | in         | mm    | in        | mm     | in         | mm     | Sq Feet        | Sq. Meters |
| ELDH                           | 17 1/2     | (445) | 27 3/4     | (705) | 53 1/2    | (1359) | 83 3/4     | (2127) | 26 15/64       | 2.437      |
| ELDH TR                        | 17 1/2     | (445) | 15 3/4     | (400) | 61 1/2    | (1562) | 23 3/4     | (603)  | 7 25/64        | 0.686      |
| ELDH P                         | 17 1/2     | (445) | 23 3/4     | (603) | 53 1/2    | (1359) | 83 3/4     | (2127) | 26 21/32       | 2.477      |
| ELDH P                         | 17 1/2     | (445) | 23 3/4     | (603) | 61 1/2    | (1562) | 75 3/4     | (1924) | 27 7/8         | 2.590      |
| ELDH-C*                        | 17 1/2     | (445) | 35 3/4     | (908) | 53 1/2    | (1359) | 67 3/4     | (1721) | 20 53/64       | 1.934      |
| ELDH-RC**                      | 17 1/2     | (445) | 35 3/4     | (908) | 53 1/2    | (1359) | 67 3/4     | (1721) | 20 53/64       | 1.934      |

\*ELDH-C = Cottage Style Unit

\*\*ELDH-RC = Reverse Cottage Style Unit

| Minimum and Maximum Guidelines - IZ3 Unit |                       |     |            |        |           |        |            |        |                |            |
|-------------------------------------------|-----------------------|-----|------------|--------|-----------|--------|------------|--------|----------------|------------|
| Unit Type                                 | Frame Size - IZ3 Unit |     |            |        |           |        |            |        | Max Glass Size |            |
|                                           | Min Width             |     | Min Height |        | Max Width |        | Max Height |        |                |            |
|                                           | in                    | mm  | in         | mm     | in        | mm     | in         | mm     | Sq. Feet       | Sq. Meters |
| ELDH                                      | 21 1/2                | 546 | 35 3/4     | (908)  | 41.5      | (1054) | 67.75      | (1721) | 15 1/2         | 1.442      |
| ELDH                                      | 21 1/2                | 546 | 35 3/4     | (908)  | 37.5      | (953)  | 75.75      | (1924) | 15 5/8         | 1.452      |
| ELDH TR                                   | 21 1/2                | 546 | 15 3/4     | (400)  | 61 1/2    | (1562) | 23 3/4     | (603)  | 7 2/7          | 0.677      |
| ELDH P                                    | 21 1/2                | 546 | 23 3/4     | (603)  | 61 1/2    | (1562) | 63 3/4     | (1619) | 23             | 2.137      |
| ELDH P                                    | 21 1/2                | 546 | 23 3/4     | (603)  | 53 1/2    | (1359) | 75 3/4     | (1924) | 23 6/8         | 2.211      |
| ELDH-C*                                   | 21 1/2                | 546 | 43 3/4     | (1111) | 41 1/2    | (1054) | 67 3/4     | (1721) | 15 1/2         | 1.442      |
| ELDH-RC**                                 | 21 1/2                | 546 | 43 3/4     | (1111) | 41 1/2    | (1054) | 67 3/4     | (1721) | 15 1/2         | 1.442      |

\*ELDH-C = Cottage Style Unit

\*\*ELDH-RC = Reverse Cottage Style Unit

**NOTE:** Special Sizes are available in 1/64" (40) increments, not to exceed the frame size measurement maximum or minimum in the table above.

# Certified Sizes and Ratings: Standard, High Performance and IZ3 Products

| Certified Sizes and Ratings - Standard and High Performance Units |                   |                     |                      |                      |                   |        |                    |        |
|-------------------------------------------------------------------|-------------------|---------------------|----------------------|----------------------|-------------------|--------|--------------------|--------|
| Product                                                           | Air Tested to psf | Water Tested to psf | Certification Rating | Design Pressure (DP) | Max Overall Width |        | Max Overall Height |        |
|                                                                   |                   |                     |                      |                      | in                | mm     | in                 | mm     |
| Elevate Double Hung (Cottage 4268)                                | 1.57              | 6.06                | LC-PG40-H            | DP40                 | 41 1/2            | (1054) | 67 3/4             | (1721) |
| Elevate Double Hung (Cottage HP 4268)                             | 1.57              | 7.52                | LC-PG50-H            | DP50                 | 41 1/2            | (1054) | 67 3/4             | (1721) |
| Elevate Double Hung (4276)                                        | 1.57              | 6.06                | LC-PG40-H            | DP40                 | 41 1/2            | (1054) | 75 3/4             | (1924) |
| Elevate Double Hung (HP 4276)                                     | 1.57              | 7.52                | LC-PG50-H            | DP50                 | 41 1/2            | (1054) | 75 3/4             | (1924) |
| Elevate Double Hung (4284)                                        | 1.57              | 5.43                | LC-PG35-H            | DP35                 | 41 1/2            | (1054) | 83 3/4             | (2127) |
| Elevate Double Hung (HP 4284)                                     | 1.57              | 6.06                | LC-PG40-H            | DP40                 | 41 1/2            | (1054) | 83 3/4             | (2127) |
| Elevate Double Hung (5476)                                        | 1.57              | 6.06                | LC-PG40-H            | DP40                 | 53 1/2            | (1359) | 75 3/4             | (1924) |
| Elevate Double Hung (HP 5476)                                     | 1.57              | 7.52                | LC-PG50-H            | DP50                 | 53 1/2            | (1359) | 75 3/4             | (1924) |
| Elevate Double Hung (5484)                                        | 1.57              | 5.43                | LC-PG35-H            | DP35                 | 53 1/2            | (1359) | 83 3/4             | (2127) |
| Elevate Double Hung (HP 5484)                                     | 1.57              | 6.06                | LC-PG40-H            | DP40                 | 53 1/2            | (1359) | 83 3/4             | (2127) |
| Elevate Double Hung Picture (5484)                                | 1.57              | 5.43                | LC-PG35-FW           | DP35                 | 53 1/2            | (1359) | 83 3/4             | (2127) |
| Elevate Double Hung Picture (HP 5484)                             | 1.57              | 6.06                | LC-PG40-FW           | DP40                 | 53 1/2            | (1359) | 83 3/4             | (2127) |
| Elevate Double Hung Picture (6276)                                | 1.57              | 6.06                | LC-PG40-FW           | DP40                 | 61 1/2            | (1562) | 75 3/4             | (1924) |
| Elevate Double Hung Picture (HP 6276)                             | 1.57              | 7.52                | LC-PG50-FW           | DP50                 | 61 1/2            | (1562) | 75 3/4             | (1924) |

| Certified Sizes and Ratings - IZ3 Units |                   |                     |                      |                      |                   |        |                    |        |
|-----------------------------------------|-------------------|---------------------|----------------------|----------------------|-------------------|--------|--------------------|--------|
| Product                                 | Air Tested to psf | Water Tested to psf | Certification Rating | Design Pressure (DP) | Max Overall Width |        | Max Overall Height |        |
|                                         |                   |                     |                      |                      | in                | mm     | in                 | mm     |
| Elevate Double Hung (Cottage 4268)      | 1.57              | 8.35                | LC-PG55-H            | +55 / -65            | 41 1/2            | (1054) | 67 3/4             | (1721) |
| Elevate Double Hung (4276)              | 1.57              | 8.35                | LC-PG55-H            | +55 / -65            | 41 1/2            | (1054) | 75 3/4             | (1924) |
| Elevate Double Hung Picture (5476)      | 1.57              | 8.35                | LC-PG55-FW           | +55 / -65            | 53 1/2            | (1359) | 75 3/4             | (1924) |
| Elevate Double Hung Picture (6264)      | 1.57              | 8.35                | LC-PG55-FW           | +55 / -65            | 61 1/2            | (1562) | 63 3/4             | (1619) |

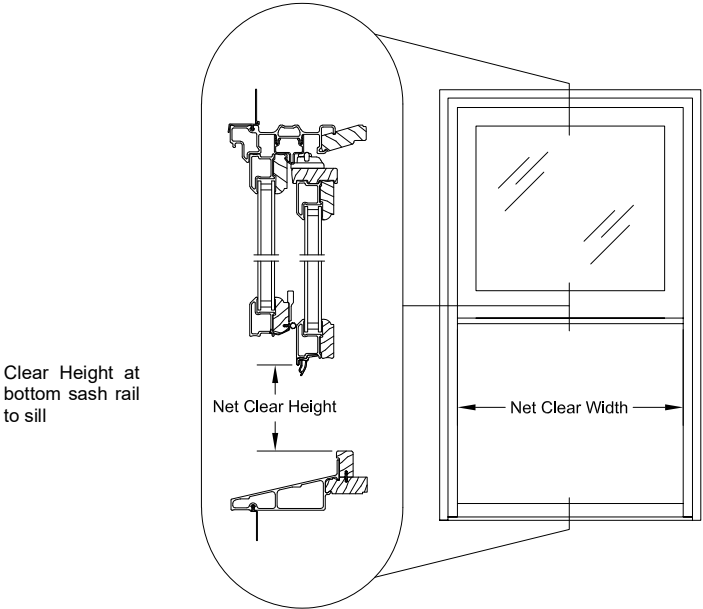
Egress Formulas

| Egress Calculations for Special Sizes |        |                                   |                                                            |
|---------------------------------------|--------|-----------------------------------|------------------------------------------------------------|
| Minimum Value for Net Clear Opening   |        | Desired Dimension                 | Formula                                                    |
| 20"                                   | (508)  | Egress Opening Width (inches)     | = Frame OMW - 3.128" (79)                                  |
| 24"                                   | (610)  | ***Egress Opening Height (inches) | Standard (Non-IZ3 Units)<br>= (Frame OMH/2) - 4.904" (128) |
|                                       |        |                                   | IZ3 and HP Units<br>= (frame OMH/2)-5.362" (140)           |
|                                       |        |                                   | *Egress Sash Stop<br>= (Frame OMH / 2) - 4.104 (108)       |
|                                       |        |                                   | **IZ3 Limited Sash Stop<br>=(Frame OMH/2)-9.862" (254)     |
| 5.7 sq. ft.                           | (0.53) | Egress Opening Area (sq. ft.)     | = (Egress Width x Egress Height) / 144                     |

- \* Egress sash stop calculation is used for non-IZ3 units in the following ranges:  
ELDH 3660  
-Special Size Rough Opening Width greater than 34 1/2" (876) and up to 38 1/2" (978) combined with a Special Size Rough Opening Height equal to 60 1/4" (1530) and up to, but not including, 62" (1575) (i.e. 37 1/4" x 61 3/4")
- \*\* IZ3 limited sash stop calculation is used for the following units:  
-IZ3 units with a Rough Opening width equal to 36 1/2" (927) or greater combined with a Rough Opening Height equal to 76 1/7" (1937) or greater (i.e. 37 1/4" x 76 1/4")
- \*\*\* All Cottage and Reverse Cottage units do not meet Egress requirements. For specific egress information, please contact your Marvin Dealer.

For all sizes not listed above, the standard sash stop calculation can be used.

EGRESS MEASUREMENTS



Code restrictions may vary depending on your local building codes. For additional information contact your local department for IBC or IRC requirements.

## Measurement Conversions

| Double Hung Operating Unit   |                        |           |       |           |       |         |
|------------------------------|------------------------|-----------|-------|-----------|-------|---------|
| Unit Measurements            |                        | Width     |       | Height    |       |         |
| From                         | To                     |           |       |           |       |         |
| Rough Opening                |                        | in        | mm    | in        | mm    |         |
| Masonry Opening              | Rough Opening          | + 1/2     | (13)  | + 1/4     | (06)  |         |
| OM of Frame                  | Rough Opening          | + 1       | (25)  | + 1/2     | (13)  |         |
| Daylight Opening             | Rough Opening          | + 6 13/16 | (173) | + 4 7/16  | (113) | × 2     |
| Frame                        |                        | in        | mm    | in        | mm    |         |
| Daylight Opening             | OM of Frame            | + 5 13/16 | (148) | + 4 13/64 | (107) | × 2     |
| Top Sash (Equal Sash)        |                        | in        | mm    | in        | mm    |         |
| OM of Frame                  | OM of Top Sash         | -2 9/16   | (65)  | -15/16    | (24)  | + 2     |
| Daylight Opening             | OM of Top Sash         | + 3 1/4   | (83)  | + 3 1/4   | (83)  |         |
| Bottom Sash (Equal Sash)     |                        | in        | mm    | in        | mm    |         |
| OM of Frame                  | OM of Bottom Sash      | -2 9/16   | (65)  | -15/16    | (24)  | + 2     |
| Daylight Opening             | OM of Bottom Sash      | + 3 1/4   | (83)  | + 3 1/4   | (83)  |         |
| Top Sash (Cottage Style)     |                        | in        | mm    | in        | mm    |         |
| OM of Frame                  | OM of Top Sash         | -2 9/16   | (65)  | -51/64    | (20)  | × 0.402 |
| Daylight Opening             | OM of Top Sash         | + 3 1/4   | (83)  | + 3 1/4   | (83)  |         |
| Bottom Sash (Cottage Style)  |                        | in        | mm    | in        | mm    |         |
| OM of Frame                  | OM of Bottom Sash      | -2 9/16   | (65)  | -2 37/64  | (66)  | × 0.597 |
| Daylight Opening             | OM of Bottom Sash      | + 3 1/4   | (83)  | + 3 1/4   | (83)  |         |
| Glass                        |                        | in        | mm    | in        | mm    |         |
| Daylight Opening             | Glass (Standard Units) | + 1 1/16  | (27)  | + 1 1/16  | (27)  |         |
| Daylight Opening             | Glass (Impact Units)   | + 7/8     | (22)  | + 7/8     | (22)  |         |
| OM of Frame                  | Glass (Standard Units) | -4 3/4    | (121) | -6 1/4    | (159) | + 2     |
| OM of Frame                  | Glass (Impact Units)   | -4 15/16  | (125) | -6 5/8    | (168) | + 2     |
| Full Screen                  |                        | in        | mm    | in        | mm    |         |
| OM of Frame                  | OM of Screen           | -2        | (51)  | -1 5/8    | (41)  |         |
| Daylight Opening             | OM of Screen           | + 3 13/16 | (97)  | + 3 3/8   | (86)  | × 2     |
| Half Screen                  |                        | in        | mm    | in        | mm    |         |
| OM of Bottom Sash            | OM of Screen           | + 9/16    | (14)  | + 25/32   | (20)  |         |
| Daylight Opening Bottom sash | OM of Screen           | + 3 13/16 | (97)  | + 4 1/32  | (102) |         |

NOTE: For Reverse Cottage Style units, Top Sash becomes Bottom Sash and Bottom Sash becomes Top Sash

**Measurement Conversions (Transoms)**

| Double Hung Picture/Transom Units |                        |           |       |          |       |
|-----------------------------------|------------------------|-----------|-------|----------|-------|
| Unit Measurements                 |                        | Width     |       | Height   |       |
| From                              | To                     |           |       |          |       |
| Rough Opening                     |                        | in        | mm    | in       | mm    |
| Masonry Opening                   | Rough Opening          | + 1/2     | (13)  | + 1/4    | (06)  |
| OM of Frame                       | Rough Opening          | + 1       | (25)  | + 1/2    | (13)  |
| Daylight Opening                  | Rough Opening          | + 6 13/16 | (173) | + 6 9/16 | (167) |
| Frame                             |                        | in        | mm    | in       | mm    |
| Daylight Opening                  | OM of Frame            | + 5 13/16 | (148) | + 6 1/16 | (154) |
| Sash                              |                        | in        | mm    | in       | mm    |
| OM of Frame                       | OM of Sash             | -2 9/16   | (65)  | -2 13/16 | (71)  |
| Daylight Opening                  | OM of Sash             | + 3 1/4   | (83)  | + 3 1/4  | (83)  |
| Glass                             |                        | in        | mm    | in       | mm    |
| Daylight Opening                  | Glass (Standard Units) | + 1 1/16  | (27)  | + 1 1/16 | (27)  |
| Daylight Opening                  | Glass (Impact Units)   | + 7/8     | (22)  | + 7/8    | (22)  |
| OM of Frame                       | Glass (Standard Units) | + 4 3/4   | (121) | + 5      | (127) |
| OM of Frame                       | Glass (Impact Units)   | + 4 15/16 | (125) | + 5 3/16 | (132) |

## Mulling Guidelines

Multiple assemblies can be factory mulled: up to 5 units wide by 1 unit high OR 3 units wide by 6 units high.

**MAXIMUM ROUGH OPENING** not to exceed 113 1/2" (2883) x 76 1/4" (1937) up to 5 units wide by 1 unit high.

**MAXIMUM ROUGH OPENING** not to exceed 84" (2134) x 92" (2337) up to 3 units wide by 5 units high.

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

## Calculating Total Rough Opening for Assemblies

- **WIDTH: ADD Frame Widths + 1" (25)**

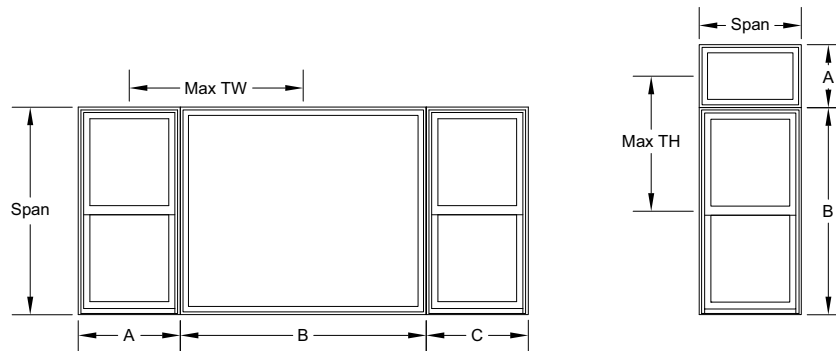
- Tolerance = 1/2" (13) from frame to Rough Opening at left and right jamb.

- **HEIGHT: ADD Frame Widths + 1/2" (13)**

- Tolerance = 1/2" (13) from frame to Rough Opening at head jamb.

- **Factory Mulling:** The Elevate Double Hung may be mulled to Elevate Double Hung products, Direct Glaze Polygon, Round Tops, and Elevate Aluminum Direct Glaze Round Tops.

## Mulling Samples



Frame to Frame Mulling Samples

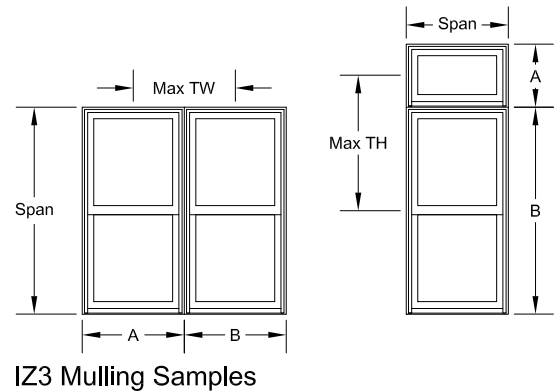
IZ3 Mulling Guidelines

IZ3 Certified Mull Limits: WDMA Hallmark certified to AAMA 450.

- If assemblies have individual units that have a lower design pressure than the mull; the entire assembly is rated at the lower design pressure.
- Mull certification includes 12" mull brackets fastened at all mull joints.
- Items not included in certified mulls: Standard mull assemblies, Elevate Direct Glaze Round Tops, and Elevate Aluminum Direct Glaze Round Tops, multi-wide x multi-high assemblies.

| 1 Directional Mull Limits                  |                |                |                                  |         |
|--------------------------------------------|----------------|----------------|----------------------------------|---------|
| Product                                    | Max Span       | Max TW or TH   | Max R.O.                         | DP      |
| Elevate Double Hung Vertical Mulling IZ3   | 75 3/4" (1924) | 53 1/2" (1359) | 113 1/2" (2883) x 76 1/4" (1937) | +55/-65 |
| Elevate Double Hung Horizontal Mulling IZ3 | 62" (1575)     | 47 1/8" (1213) | 63" (1600) x 92" (2337)          | +55/-65 |

- Standard Mulls are not certified
- Assembly DP is lowest DP of mull or any product
- Stepped Mulls are not certified
- Tributary Width or Tributary Height = 1/2A + 1/2B



## Certified Frame to Frame Mulling Guidelines

**Multiple assemblies can be factory mulled: up to 5 units wide by 1 unit high OR 3 units wide by 6 units high.**

### Calculating Total Rough Opening for Assemblies

- **WIDTH: ADD Frame Widths + 1" (25)**

- Tolerance = 1/2" (13) from frame to Rough Opening at left and right jamb.

- **HEIGHT: ADD Frame Widths + 1/2" (13)**

- Tolerance = 1/2" (13) from frame to Rough Opening at head jamb.

- **Factory Mulling:** The Elevate Double Hung may be mulled to Elevate Double Hung products, Direct Glaze Polygon, Elevate Direct Glaze Round Tops, and Elevate Aluminum Direct Glaze Round Tops.

| 1 Directional Mull Limits                            |               |                |                |                                  |     |
|------------------------------------------------------|---------------|----------------|----------------|----------------------------------|-----|
| Product                                              | Configuration | Max Span       | Max TW or TH   | Max R.O.                         | DP  |
| Elevate Double Hung Vertical Frame - Frame Mulling   | 2-5W x 1H     | 67 3/4" (1720) | 56 1/4" (1429) | 113 1/2" (2883) x 68 1/4" (1734) | +50 |
| Elevate Double Hung Horizontal Frame - Frame Mulling | 1W x 5H       | 61 1/2" (1562) | 45 3/4" (1162) | 62 1/2" (1588) x 92" (2337)      | +50 |

## Certified 1/2" MRF Mulling Guidelines

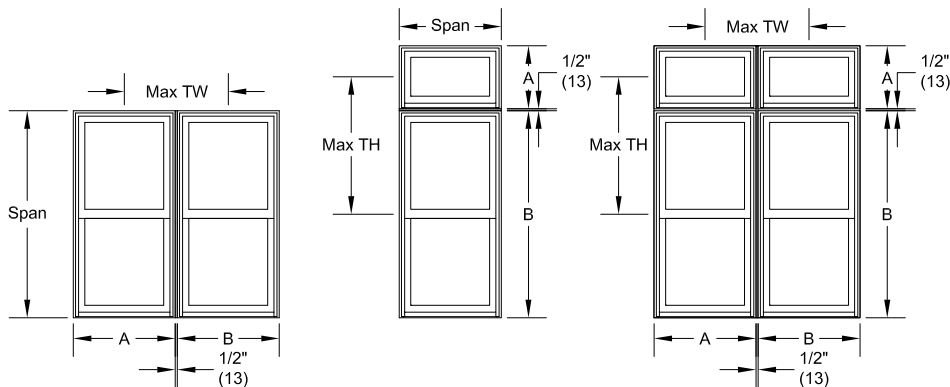
### Certified 1/2" Mull Limits: WDMA Hallmark certified to AAMA 450.

- If assemblies have individual units that have a lower design pressure than the mull; the entire assembly is rated at the lower design pressure.
- Mull certification includes 4" mull brackets fastened at all mull joints.

| 1 Directional Mull Limits                       |               |                |                |                                  |     |
|-------------------------------------------------|---------------|----------------|----------------|----------------------------------|-----|
| Product                                         | Configuration | Max Span       | Max TW or TH   | Max R.O.                         | DP  |
| Elevate Double Hung Vertical 1/2" MRF Mulling   | 2-5W x 1H     | 75 3/4" (1924) | 56 1/4" (1429) | 113 1/2" (2883) x 76 1/4" (1937) | +50 |
| Elevate Double Hung Vertical 1/2" MRF Mulling   | 2-5W x 1H     | 83 3/4" (2127) | 53 3/4" (1365) | 108 1/2" (2756) x 84 1/4" (2140) | +40 |
| Elevate Double Hung Horizontal 1/2" MRF Mulling | 1W x 2-5H     | 61 1/2" (1562) | 45 3/4" (1162) | 62 1/2" (1588) x 92" (2337)      | +50 |

| Multi-High, Multi-Wide Mull Limits                         |               |                |                |                                 |     |
|------------------------------------------------------------|---------------|----------------|----------------|---------------------------------|-----|
| Product                                                    | Configuration | Max Span       | Max TW or TH   | Max R.O.                        | DP  |
| Elevate Double Hung Vertical Continuous 1/2" MRF Mulling   | 2-3W x 2-5H   | 91 1/2" (2324) | 41 1/2" (1054) | 84" (2134) x 92" (2337)         | +50 |
| Elevate Double Hung Horizontal Continuous 1/2" MRF Mulling | 2-3W x 2-5H   | 61 1/2" (1562) | 41 1/2" (1054) | 62 1/2" (1588) x 83 1/2" (2121) | +50 |

- Assembly DP is lowest DP of mull or any product
- Stepped Mulls, Palladians, Polygon Shapes, Through Jamb and Insert Products are not certified
- Tributary Width or Tributary Height =  $1/2A + 1/2B$ 
  - If Mull Contains 1/2" MRF: TW or TH =  $(A + B + 1/2) / 2$
  - If Mull Contains no MRF (frame-to-frame): TW or TH =  $(A + B) / 2$



1/2" Mull Reinforcement (MRF) Mulling Samples

# Standard Unit Measurements: Double Hung

| Standard Double Hung Unit Measurements |                 |        |               |        |            |        |            |        |           |        |                  |        |
|----------------------------------------|-----------------|--------|---------------|--------|------------|--------|------------|--------|-----------|--------|------------------|--------|
| Width                                  |                 |        |               |        |            |        |            |        |           |        |                  |        |
| CN                                     | Masonry Opening |        | Rough Opening |        | Frame Size |        | Sash Size  |        | Screen OM |        | Daylight Opening |        |
|                                        | ft - in         | mm     | ft - in       | mm     | ft - in    | mm     | ft - in    | mm     | ft - in   | mm     | ft - in          | mm     |
| 22                                     | 1-10            | (559)  | 1-10 1/2      | (572)  | 1-9 1/2    | (546)  | 1-6 15/16  | (481)  | 1-7 1/2   | (495)  | 1-3 11/16        | (398)  |
| 26                                     | 2-2             | (660)  | 2-2 1/2       | (673)  | 2-1 1/2    | (648)  | 1-10 15/16 | (583)  | 1-11 1/2  | (597)  | 1-7 11/16        | (500)  |
| 30                                     | 2-6             | (762)  | 2-6 1/2       | (775)  | 2-5 1/2    | (749)  | 2-2 15/16  | (684)  | 2-3 1/2   | (699)  | 1-11 11/16       | (602)  |
| 32                                     | 2-8             | (813)  | 2-8 1/2       | (826)  | 2-7 1/2    | (800)  | 2-4 15/16  | (735)  | 2-5 1/2   | (749)  | 2-1 11/16        | (652)  |
| 34                                     | 2-10            | (864)  | 2-10 1/2      | (876)  | 2-9 1/2    | (851)  | 2-6 15/16  | (786)  | 2-7 1/2   | (800)  | 2-3 11/16        | (703)  |
| 36                                     | 3-0             | (914)  | 3-0 1/2       | (927)  | 2-11 1/2   | (902)  | 2-8 15/16  | (837)  | 2-9 1/2   | (851)  | 2-5 11/16        | (754)  |
| 38                                     | 3-2             | (965)  | 3-2 1/2       | (978)  | 3-1 1/2    | (953)  | 2-10 15/16 | (888)  | 2-11 1/2  | (902)  | 2-7 11/16        | (805)  |
| 42                                     | 3-6             | (1067) | 3-6 1/2       | (1080) | 3-5 1/2    | (1054) | 3-2 15/16  | (989)  | 3-3 1/2   | (1003) | 2-11 11/16       | (906)  |
| 48                                     | 4-0             | (1219) | 4-0 1/2       | (1232) | 3-11 1/2   | (1207) | 3-8 15/16  | (1142) | 3-9 1/2   | (1156) | 3-5 11/16        | (1059) |
| 54                                     | 4-6             | (1372) | 4-6 1/2       | (1384) | 4-5 1/2    | (1359) | 4-2 15/16  | (1294) | 4-3 1/2   | (1308) | 3-11 11/16       | (1211) |

Special Size ELDH are available to a minimum frame width of 1-5 1/2 (445) in increments of 1/64

| Standard Double Hung Unit Measurements |                 |        |               |        |            |        |            |        |           |        |                  |       |
|----------------------------------------|-----------------|--------|---------------|--------|------------|--------|------------|--------|-----------|--------|------------------|-------|
| Height                                 |                 |        |               |        |            |        |            |        |           |        |                  |       |
| CN                                     | Masonry Opening |        | Rough Opening |        | Frame Size |        | Sash Size  |        | Screen OM |        | Daylight Opening |       |
|                                        | ft - in         | mm     | ft - in       | mm     | ft - in    | mm     | ft - in    | mm     | ft - in   | mm     | ft - in          | mm    |
| 36                                     | 3-0             | (914)  | 3-0 1/4       | (921)  | 2-11 3/4   | (908)  | 1-4 15/16  | (430)  | 2-10 1/8  | (867)  | 1-1 11/16        | (348) |
| 40                                     | 3-4             | (1016) | 3-4 1/4       | (1022) | 3-3 3/4    | (1010) | 1-6 15/16  | (481)  | 3-2 1/8   | (968)  | 1-3 11/16        | (398) |
| 44                                     | 3-8             | (1118) | 3-8 1/4       | (1124) | 3-7 3/4    | (1111) | 1-8 15/16  | (532)  | 3-6 1/8   | (1070) | 1-5 11/16        | (449) |
| 48                                     | 4-0             | (1219) | 4-0 1/4       | (1226) | 3-11 3/4   | (1213) | 1-10 15/16 | (583)  | 3-10 1/8  | (1172) | 1-7 11/16        | (500) |
| 52                                     | 4-4             | (1321) | 4-4 1/4       | (1327) | 4-3 3/4    | (1314) | 2-0 15/16  | (633)  | 4-2 1/8   | (1273) | 1-9 11/16        | (551) |
| 56                                     | 4-8             | (1422) | 4-8 1/4       | (1429) | 4-7 3/4    | (1416) | 2-2 15/16  | (684)  | 4-6 1/8   | (1375) | 1-11 11/16       | (602) |
| 60                                     | 5-0             | (1524) | 5-0 1/4       | (1530) | 4-11 3/4   | (1518) | 2-4 15/16  | (735)  | 4-10 1/8  | (1476) | 2-1 11/16        | (652) |
| 64                                     | 5-4             | (1626) | 5-4 1/4       | (1632) | 5-3 3/4    | (1619) | 2-6 15/16  | (786)  | 5-2 1/8   | (1578) | 2-3 11/16        | (703) |
| 68                                     | 5-8             | (1727) | 5-8 1/4       | (1734) | 5-7 3/4    | (1721) | 2-8 15/16  | (837)  | 5-6 1/8   | (1680) | 2-5 11/16        | (754) |
| 72                                     | 6-0             | (1829) | 6-0 1/4       | (1835) | 5-11 3/4   | (1822) | 2-10 15/16 | (887)  | 5-10 1/8  | (1781) | 2-7 11/16        | (805) |
| 76                                     | 6-4             | (1930) | 6-4 1/4       | (1937) | 6-3 3/4    | (1924) | 3-0 15/16  | (938)  | 6-2 1/8   | (1883) | 2-9 11/16        | (856) |
| 80                                     | 6-8             | (2032) | 6-8 1/4       | (2038) | 6-7 3/4    | (2026) | 3-2 15/16  | (989)  | 6-6 1/8   | (1984) | 2-11 11/16       | (906) |
| 84                                     | 7-0             | (2134) | 7-0 1/4       | (2140) | 6-11 3/4   | (2127) | 3-4 15/16  | (1040) | 6-10 1/8  | (2086) | 3-1 11/16        | (957) |

Special Size ELDH are available to a minimum frame height of 2-3 3/4 (705) to a maximum frame height of 6-11 3/4 (2127) in increments of 1/64

Cottage/Reverse Cottage Style ELDH are available only in height from CN36 to CN68 in increments of 1/64. Total Daylight Opening is divided on a 2/5 to 3/5 ratio

## Standard Unit Measurements: Double Hung Transoms

| Standard Double Hung Transom Unit Measurements |                 |        |               |        |            |        |            |        |                  |        |
|------------------------------------------------|-----------------|--------|---------------|--------|------------|--------|------------|--------|------------------|--------|
| Width                                          |                 |        |               |        |            |        |            |        |                  |        |
| CN                                             | Masonry Opening |        | Rough Opening |        | Frame Size |        | Sash Size  |        | Daylight Opening |        |
|                                                | ft - in         | mm     | ft - in       | mm     | ft - in    | mm     | ft - in    | mm     | ft - in          | mm     |
| 22                                             | 1-10            | (559)  | 1-10 1/2      | (572)  | 1-9 1/2    | (546)  | 1-6 15/16  | (481)  | 1-3 11/16        | (398)  |
| 26                                             | 2-2             | (660)  | 2-2 1/2       | (673)  | 2-1 1/2    | (648)  | 1-10 15/16 | (583)  | 1-7 11/16        | (500)  |
| 30                                             | 2-6             | (762)  | 2-6 1/2       | (775)  | 2-5 1/2    | (749)  | 2-2 15/16  | (684)  | 1-9 11/16        | (551)  |
| 32                                             | 2-8             | (813)  | 2-8 1/2       | (826)  | 2-7 1/2    | (800)  | 2-4 15/16  | (735)  | 1-11 11/16       | (602)  |
| 34                                             | 2-10            | (864)  | 2-10 1/2      | (876)  | 2-9 1/2    | (851)  | 2-6 15/16  | (786)  | 2-3 11/16        | (703)  |
| 36                                             | 3-0             | (914)  | 3-0 1/2       | (927)  | 2-11 1/2   | (902)  | 2-8 15/16  | (837)  | 2-5 11/16        | (754)  |
| 38                                             | 3-2             | (965)  | 3-2 1/2       | (978)  | 3-1 1/2    | (953)  | 2-10 15/16 | (888)  | 2-7 11/16        | (805)  |
| 42                                             | 3-6             | (1067) | 3-6 1/2       | (1080) | 3-5 1/2    | (1054) | 3-2 15/16  | (989)  | 2-11 11/16       | (906)  |
| 48                                             | 4-0             | (1219) | 4-0 1/2       | (1232) | 3-11 1/2   | (1207) | 3-8 15/16  | (1142) | 3-5 11/16        | (1059) |
| 50                                             | 4-2             | (1270) | 4-2 1/2       | (1283) | 4-1 1/2    | (1257) | 3-10 15/16 | (1192) | 3-7 11/16        | (1110) |
| 54                                             | 4-6             | (1372) | 4-6 1/2       | (1384) | 4-5 1/2    | (1359) | 4-2 15/16  | (1294) | 3-11 11/16       | (1211) |
| 62                                             | 5-2             | (1575) | 5-2 1/2       | (1588) | 5-1 1/2    | (1562) | 4-10 15/16 | (1497) | 4-7 11/16        | (1414) |

Special Size ELDH TR are available to a minimum frame width of 1-5 1/2" (445) in increments of 1/64" up to a width of 5-1 1/2" (1562)

| Standard Double Hung Transom Unit Measurements |                 |       |               |       |            |       |           |       |                  |       |
|------------------------------------------------|-----------------|-------|---------------|-------|------------|-------|-----------|-------|------------------|-------|
| Height                                         |                 |       |               |       |            |       |           |       |                  |       |
| CN                                             | Masonry Opening |       | Rough Opening |       | Frame Size |       | Sash Size |       | Daylight Opening |       |
|                                                | ft - in         | mm    | ft - in       | mm    | ft - in    | mm    | ft - in   | mm    | ft - in          | mm    |
| 16                                             | 1-4             | (406) | 1-4 1/4       | (413) | 1-3 3/4    | (400) | 1-0 15/16 | (329) | 0-9 11/16        | (246) |
| 24                                             | 2-0             | (610) | 2-0 1/4       | (616) | 1-11 3/4   | (603) | 1-8 15/16 | (532) | 1-5 11/16        | (449) |

## Standard Unit Measurements: Picture

| Standard Double Hung Picture Unit Measurements |                 |        |               |        |            |        |            |        |                  |        |
|------------------------------------------------|-----------------|--------|---------------|--------|------------|--------|------------|--------|------------------|--------|
| Width                                          |                 |        |               |        |            |        |            |        |                  |        |
| CN                                             | Masonry Opening |        | Rough Opening |        | Frame Size |        | Sash Size  |        | Daylight Opening |        |
|                                                | ft - in         | mm     | ft - in       | mm     | ft - in    | mm     | ft - in    | mm     | ft - in          | mm     |
| 22                                             | 1-10            | (559)  | 1-10 1/2      | (572)  | 1-9 1/2    | (546)  | 1-6 15/16  | (481)  | 1-3 11/16        | (398)  |
| 26                                             | 2-2             | (660)  | 2-2 1/2       | (673)  | 2-1 1/2    | (648)  | 1-10 15/16 | (583)  | 1-7 11/16        | (500)  |
| 30                                             | 2-6             | (762)  | 2-6 1/2       | (775)  | 2-5 1/2    | (749)  | 2-2 15/16  | (684)  | 1-11 11/16       | (602)  |
| 32                                             | 2-8             | (813)  | 2-8 1/2       | (826)  | 2-7 1/2    | (800)  | 2-4 15/16  | (735)  | 2-1 11/16        | (652)  |
| 34                                             | 2-10            | (864)  | 2-10 1/2      | (876)  | 2-9 1/2    | (851)  | 2-6 15/16  | (786)  | 2-3 11/16        | (703)  |
| 36                                             | 3-0             | (914)  | 3-0 1/2       | (927)  | 2-11 1/2   | (902)  | 2-8 15/16  | (837)  | 2-5 11/16        | (754)  |
| 38                                             | 3-2             | (965)  | 3-2 1/2       | (978)  | 3-1 1/2    | (953)  | 2-10 15/16 | (888)  | 2-7 11/16        | (805)  |
| 42                                             | 3-6             | (1067) | 3-6 1/2       | (1080) | 3-5 1/2    | (1054) | 3-2 15/16  | (989)  | 2-11 11/16       | (906)  |
| 48                                             | 4-0             | (1219) | 4-0 1/2       | (1232) | 3-11 1/2   | (1207) | 3-8 15/16  | (1142) | 3-5 11/16        | (1059) |
| 50                                             | 4-2             | (1270) | 4-2 1/2       | (1283) | 4-1 1/2    | (1257) | 3-10 15/16 | (1192) | 3-7 11/16        | (1110) |
| 54                                             | 4-6             | (1372) | 4-6 1/2       | (1384) | 4-5 1/2    | (1359) | 4-2 15/16  | (1294) | 3-11 11/16       | (1211) |
| 62                                             | 5-2             | (1575) | 5-2 1/2       | (1588) | 5-1 1/2    | (1562) | 4-10 15/16 | (1497) | 4-7 11/16        | (1414) |

Special Size ELDH P are available in frame width minimum of 1-5 1/2 (445) in increments of 1/64" up to a width of 5-1 1/2" (1562).

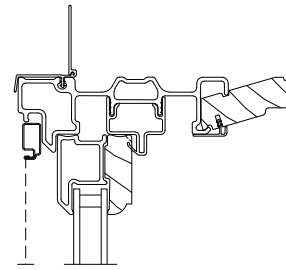
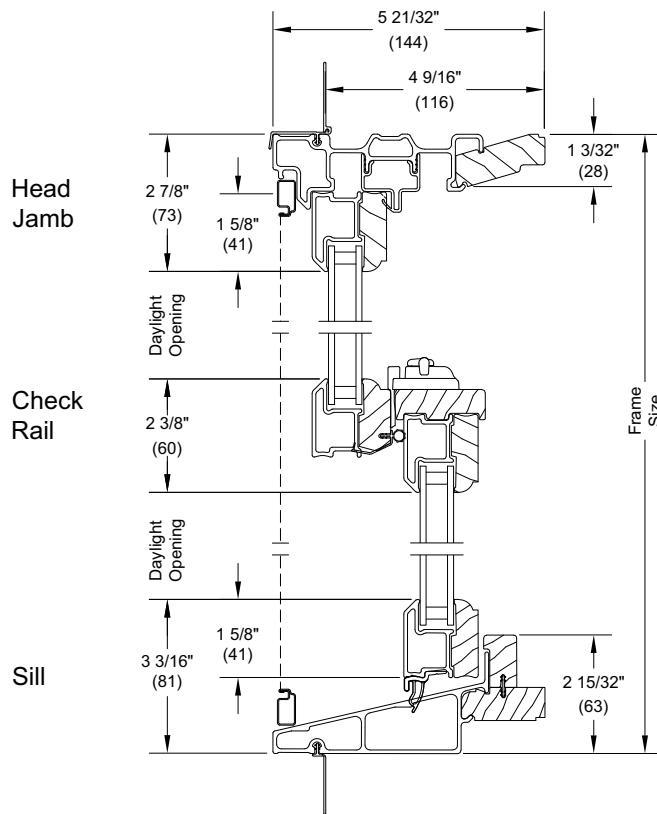
| Standard Double Hung Picture Unit Measurements |                 |        |               |        |            |        |           |        |                  |        |
|------------------------------------------------|-----------------|--------|---------------|--------|------------|--------|-----------|--------|------------------|--------|
| Height                                         |                 |        |               |        |            |        |           |        |                  |        |
| CN                                             | Masonry Opening |        | Rough Opening |        | Frame Size |        | Sash Size |        | Daylight Opening |        |
|                                                | ft - in         | mm     | ft - in       | mm     | ft - in    | mm     | ft - in   | mm     | ft - in          | mm     |
| 24                                             | 2-0             | (610)  | 2-0 1/4       | (616)  | 1-11 3/4   | (603)  | 1-8 15/16 | (532)  | 1-5 11/16        | (449)  |
| 36                                             | 3-0             | (914)  | 3-0 1/4       | (921)  | 2-11 3/4   | (908)  | 2-8 15/16 | (837)  | 2-5 11/16        | (754)  |
| 40                                             | 3-4             | (1016) | 3-4 1/4       | (1022) | 3-3 3/4    | (1010) | 3-0 15/16 | (938)  | 2-9 11/16        | (856)  |
| 44                                             | 3-8             | (1118) | 3-8 1/4       | (1124) | 3-7 3/4    | (1111) | 3-4 15/16 | (1040) | 3-1 11/16        | (957)  |
| 48                                             | 4-0             | (1219) | 4-0 1/4       | (1226) | 3-11 3/4   | (1213) | 3-8 15/16 | (1142) | 3-5 11/16        | (1059) |
| 52                                             | 4-4             | (1321) | 4-4 1/4       | (1327) | 4-3 3/4    | (1314) | 4-0 15/16 | (1243) | 3-9 11/16        | (1160) |
| 56                                             | 4-8             | (1422) | 4-8 1/4       | (1429) | 4-7 3/4    | (1416) | 4-4 15/16 | (1345) | 4-1 11/16        | (1262) |
| 60                                             | 5-0             | (1524) | 5-0 1/4       | (1530) | 4-11 3/4   | (1518) | 4-8 15/16 | (1446) | 4-5 11/16        | (1364) |
| 64                                             | 5-4             | (1626) | 5-4 1/4       | (1632) | 5-3 3/4    | (1619) | 5-0 15/16 | (1548) | 4-9 11/16        | (1465) |
| 68                                             | 5-8             | (1727) | 5-8 1/4       | (1734) | 5-7 3/4    | (1721) | 5-4 15/16 | (1650) | 5-1 11/16        | (1567) |
| 72                                             | 6-0             | (1829) | 6-0 1/4       | (1835) | 5-11 3/4   | (1822) | 5-8 15/16 | (1751) | 5-5 11/16        | (1668) |
| 76                                             | 6-4             | (1930) | 6-4 1/4       | (1937) | 6-3 3/4    | (1924) | 6-0 15/16 | (1853) | 5-9 11/16        | (1770) |
| 80                                             | 6-8             | (2032) | 6-8 1/4       | (2038) | 6-7 3/4    | (2026) | 6-4 15/16 | (1954) | 6-1 11/16        | (1872) |
| 84                                             | 7-0             | (2134) | 7-0 1/4       | (2140) | 6-11 3/4   | (2127) | 6-8 15/16 | (2056) | 6-5 11/16        | (1973) |

ELD H P with a frame width of 4-5 1/2 (1359) and less can have a maximum frame height of 6-11 3/4 (2127), ELD H P with a frame width greater than 4-5 1/2 (1359) can only have a maximum frame height of 6-3 3/4 (1924).

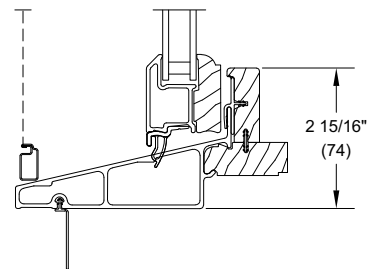


**Section Details: Operating - Double Hung (4 9/16" Jamb)**

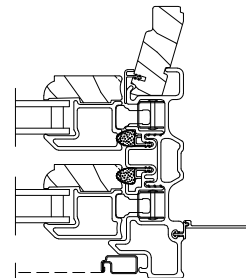
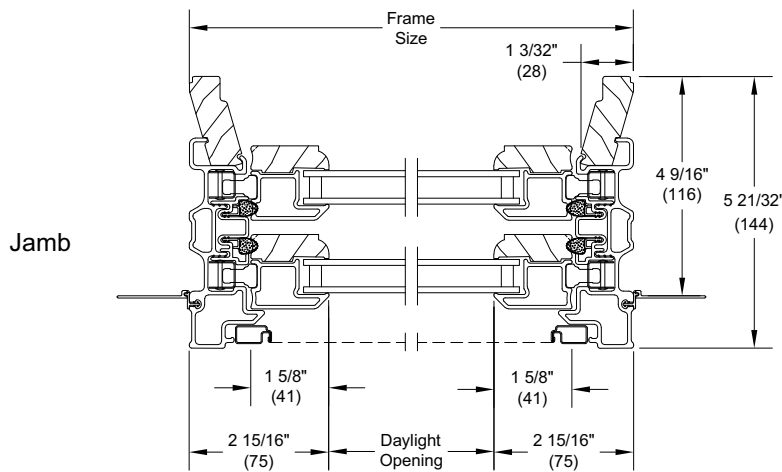
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only



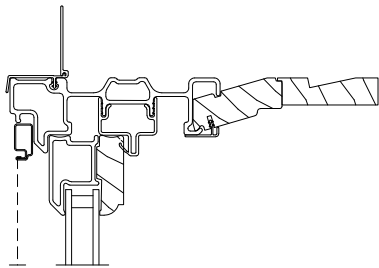
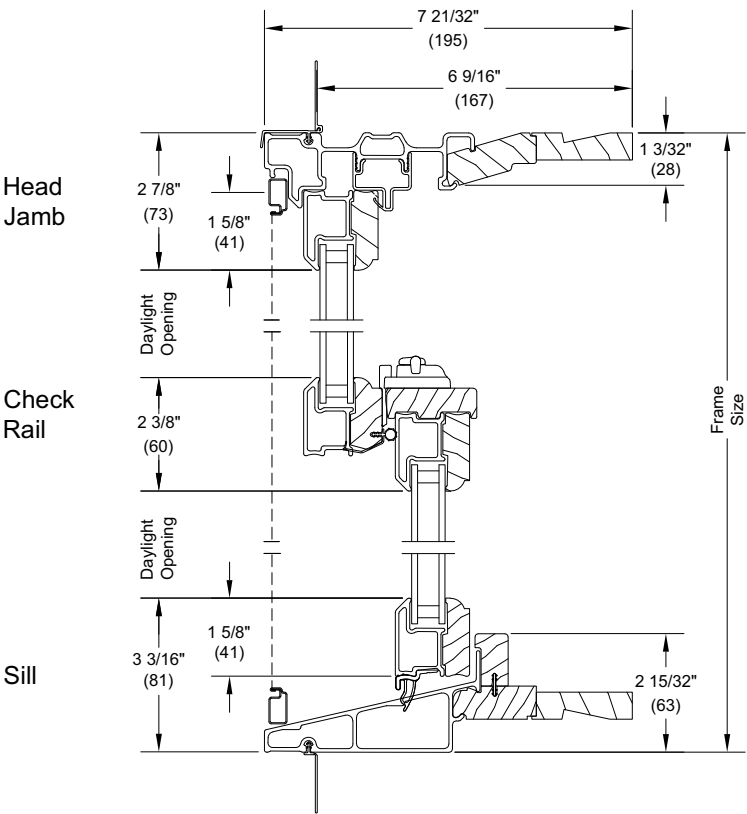
High  
Performance  
Sill



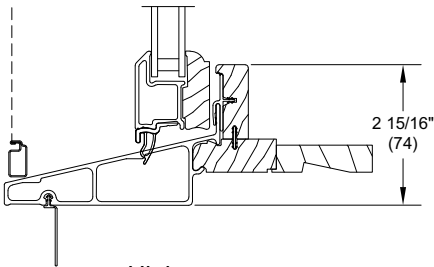
Jamb  
Interior Painted  
Units Only

Section Details: Operating - Double Hung (6 9/16" Jambs)

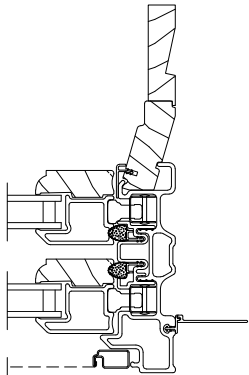
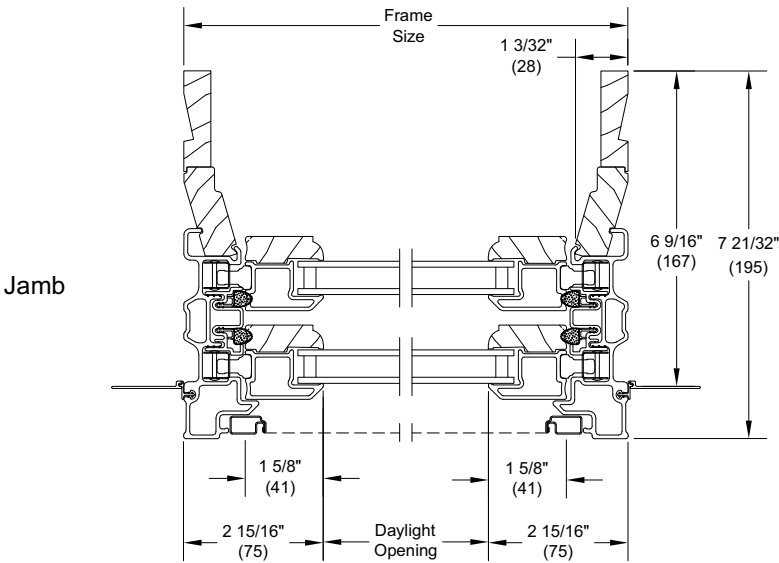
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only



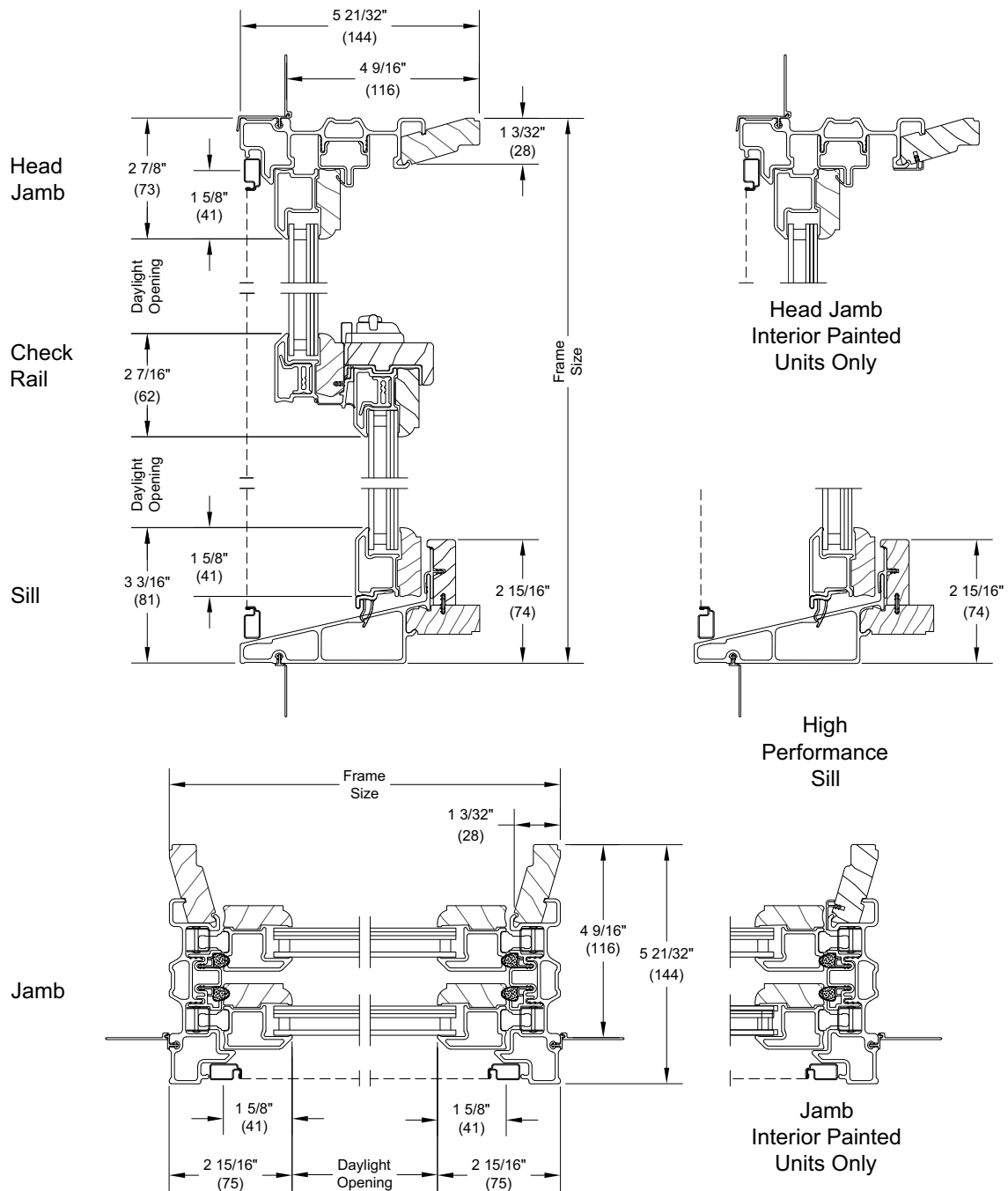
High  
Performance  
Sill



Jamb  
Interior Painted  
Units Only

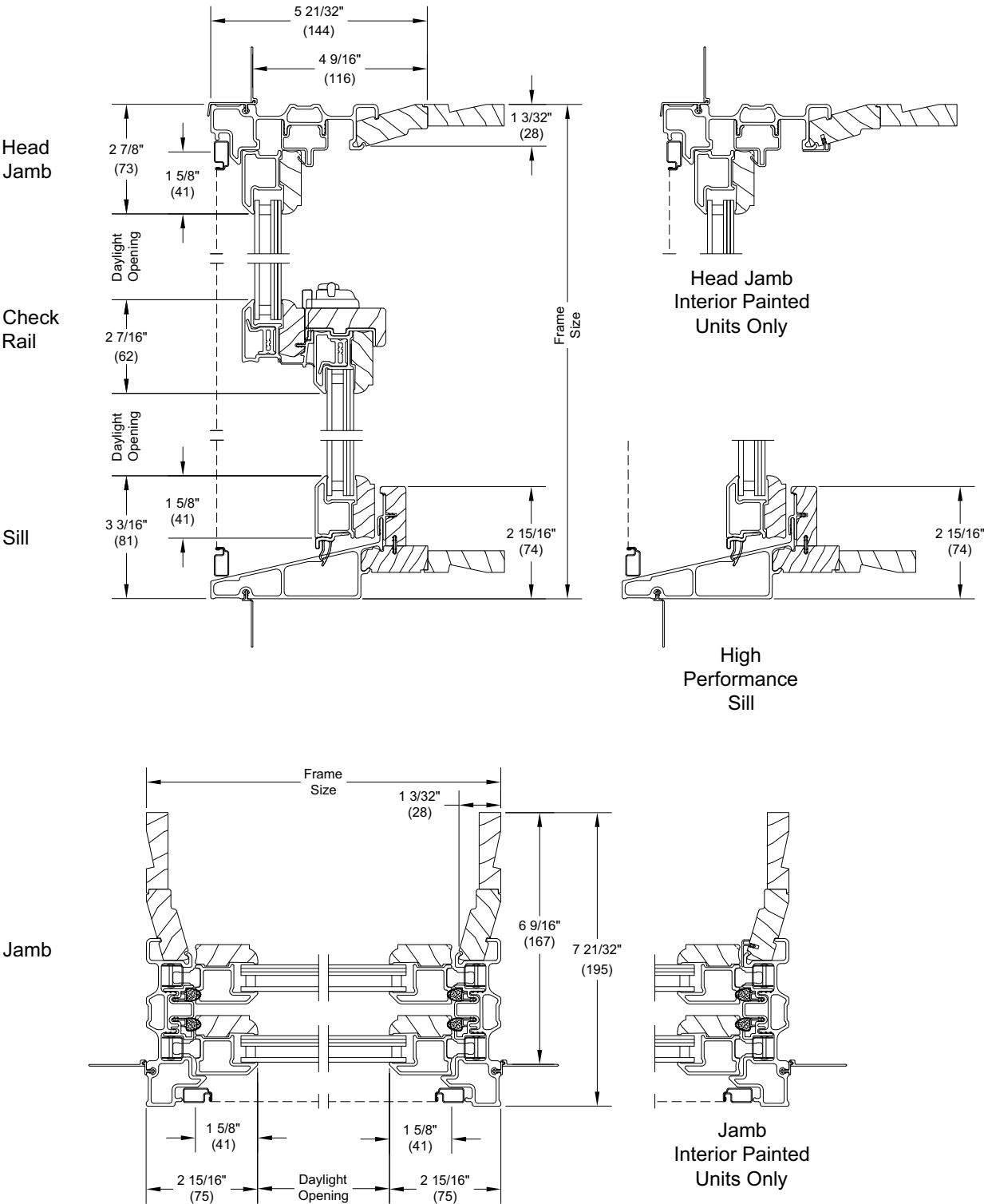
**Section Details: Operating - Double Hung (4 9/16" Jambs) - IZ3**

Scale: 3" = 1' 0"



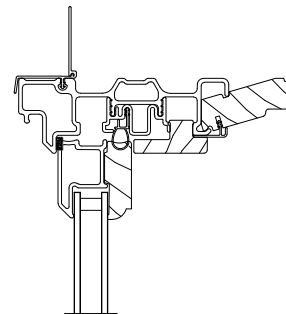
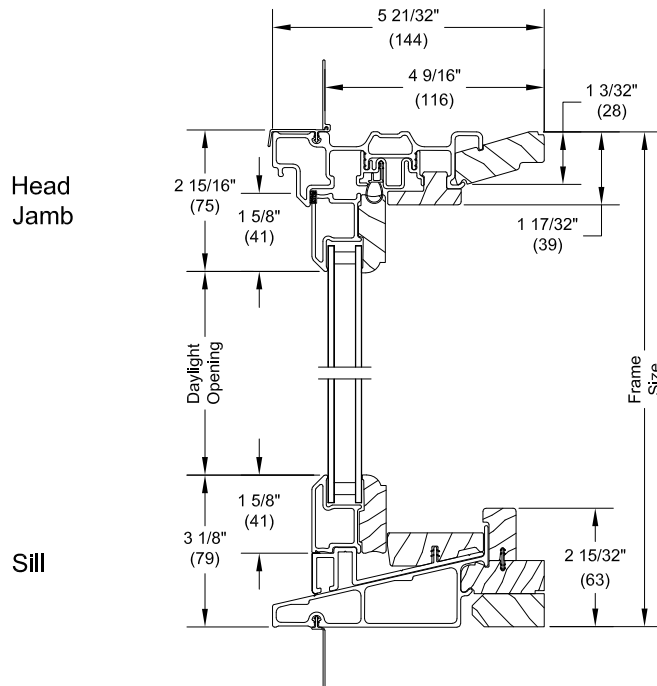
Section Details: Operating - Double Hung (6 9/16" Jambs) - IZ3

Scale: 3" = 1' 0"

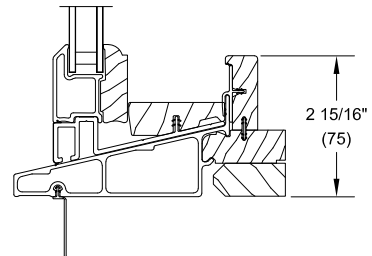


**Section Details: Double Hung Picture/Transom (4 9/16" Jamb)**

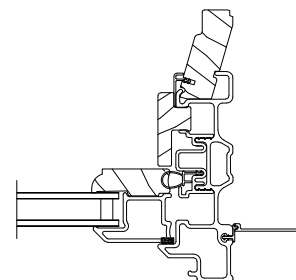
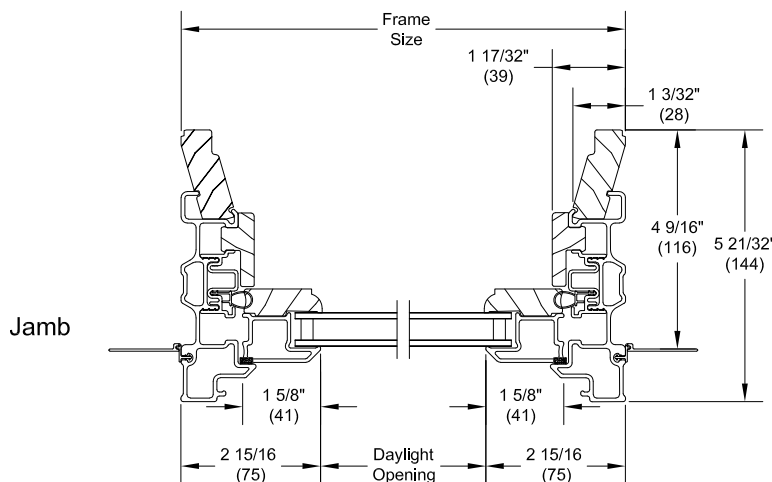
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only

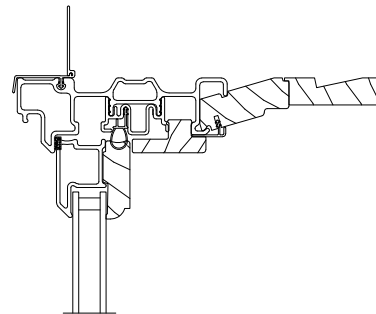


High  
Performance  
Sill

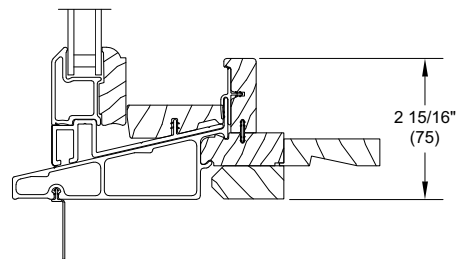


Jamb  
Interior Painted  
Units Only

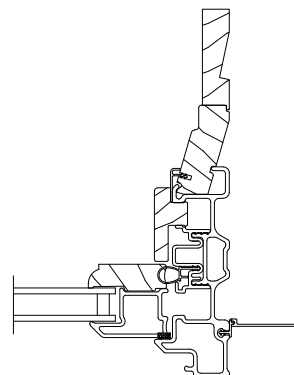
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only



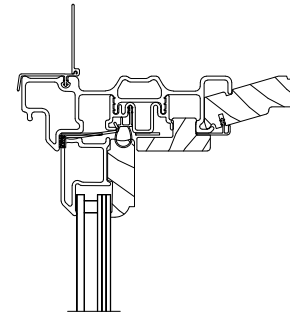
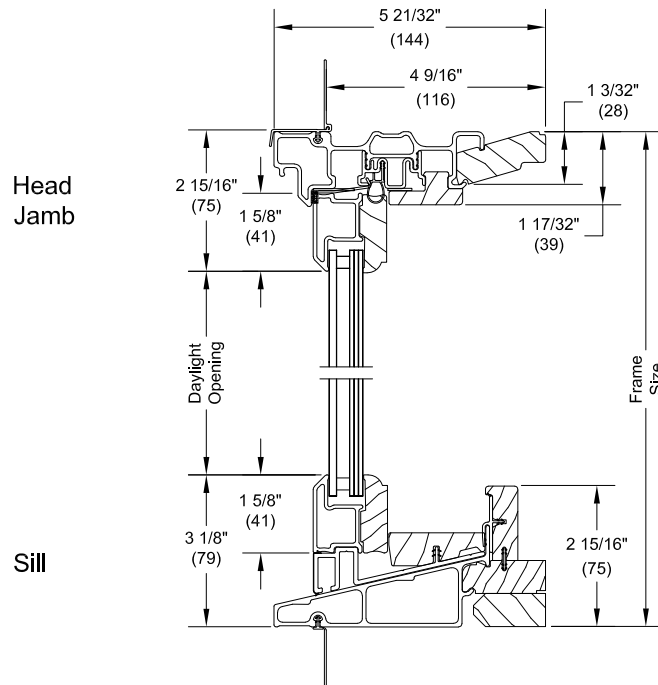
High  
Performance  
Sill



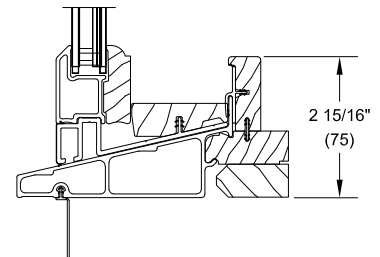
Jamb  
Interior Painted  
Units Only

**Section Details: Double Hung Picture/Transom (4 9/16" Jamb) - IZ3**

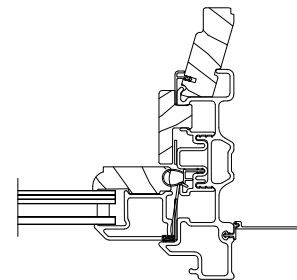
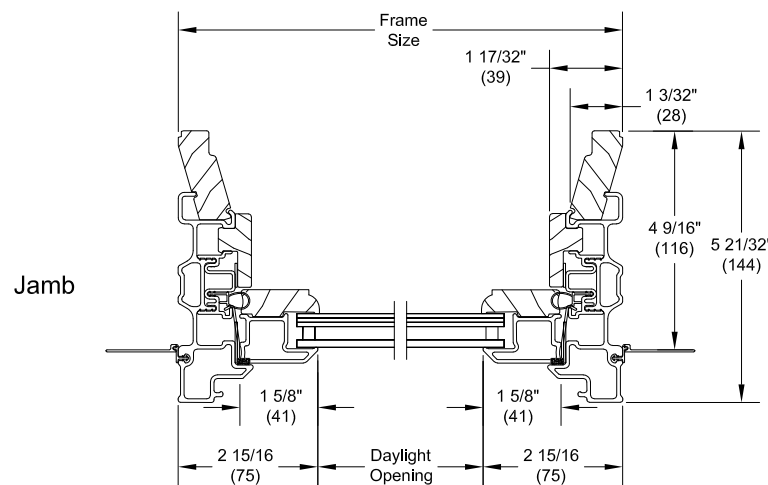
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only



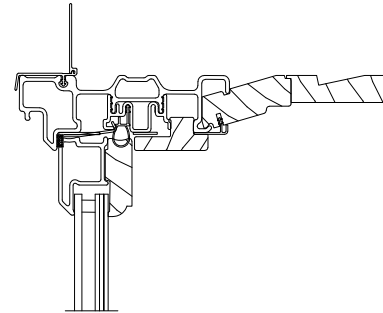
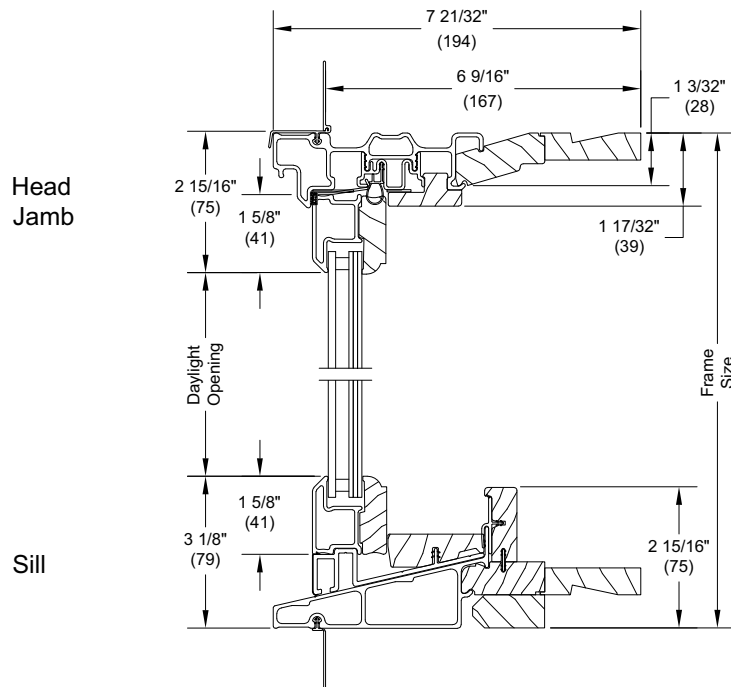
High  
Performance  
Sill



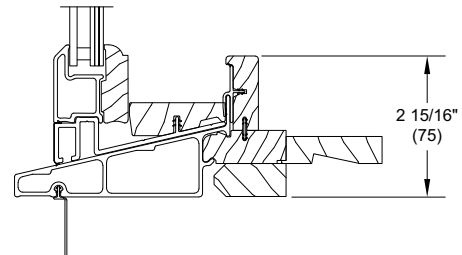
Jamb  
Interior Painted  
Units Only

**Section Details: Double Hung Picture/Transom (6 9/16" Jambs) - IZ3**

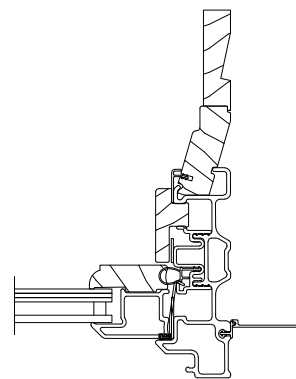
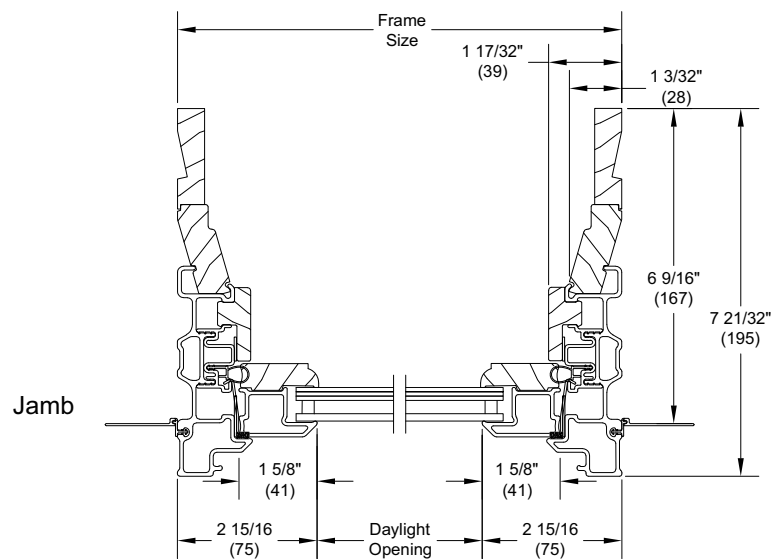
Scale: 3" = 1' 0"



Head Jamb  
Interior Painted  
Units Only



High  
Performance  
Sill

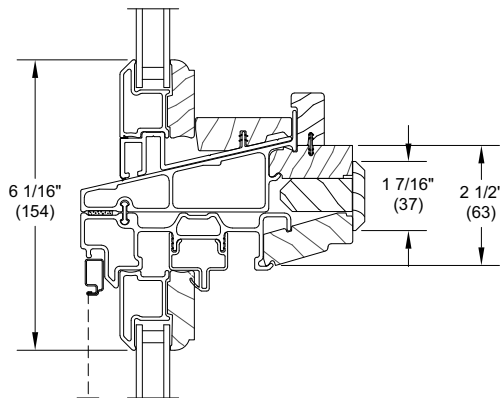


Jamb  
Interior Painted  
Units Only

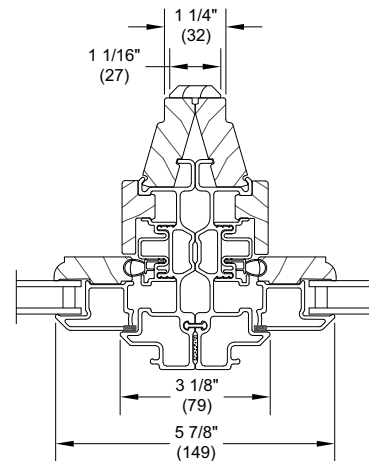
*NOTE: Units shown do not have Interior Jamb Caps.*

**Section Details: Mullions (Frame-to-Frame) - Double Hung**

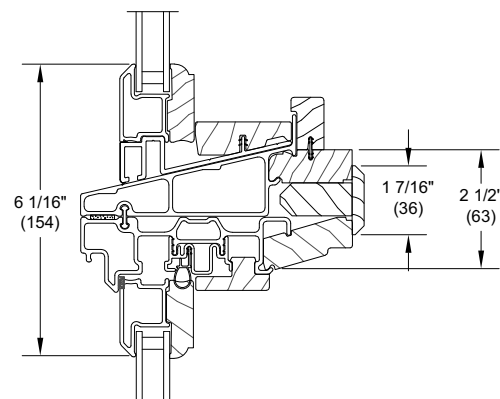
Scale: 3" = 1' 0"



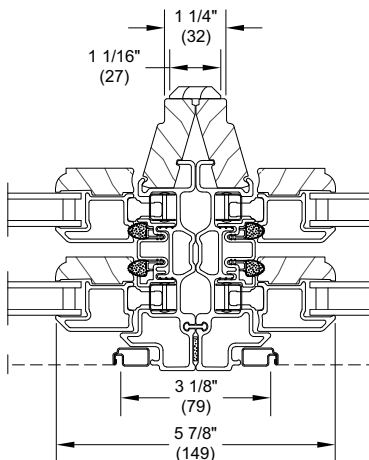
Horizontal Transom  
Over Operating Unit



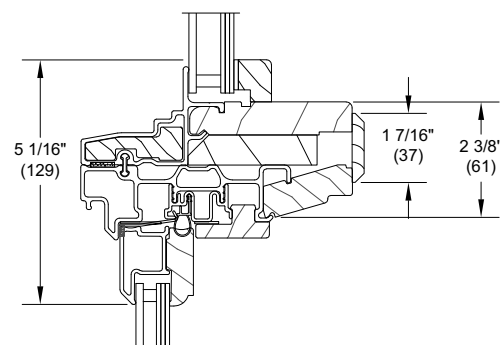
Vertical Picture Unit  
2 Wide



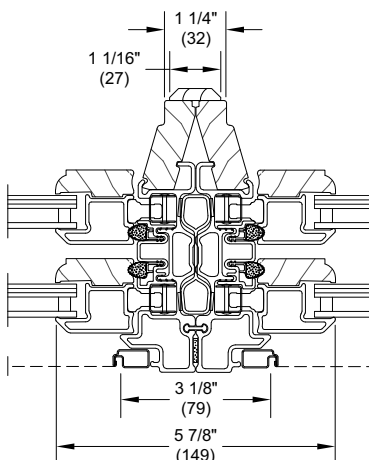
HORIZONTAL TRANSOM  
OVER PICTURE UNIT



Vertical Double Hung Units  
2 Wide



HORIZONTAL DG TRANSOM  
OVER PICTURE UNIT - IMPACT

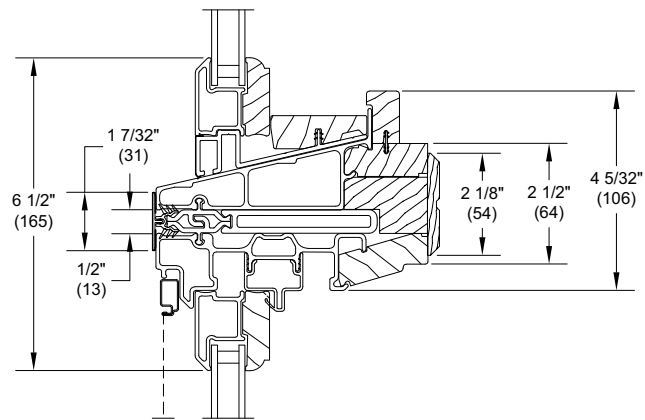


Vertical Double Hung Units  
2 Wide - Impact

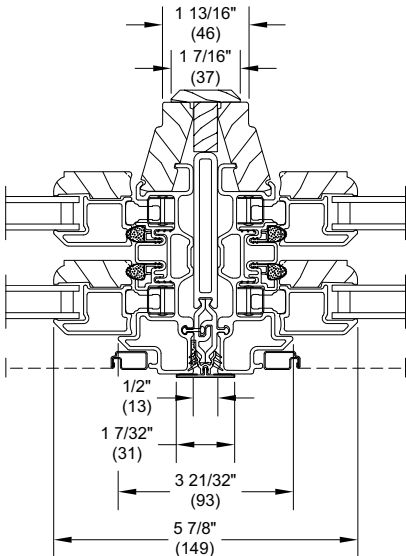
**NOTE:** IZ3 logo represents units that are certified for IZ3 glazing with a wind zone 3  
Units shown do not have Interior Jamb Caps.

Section Details: Mullions (1/2" MRF) - Double Hung

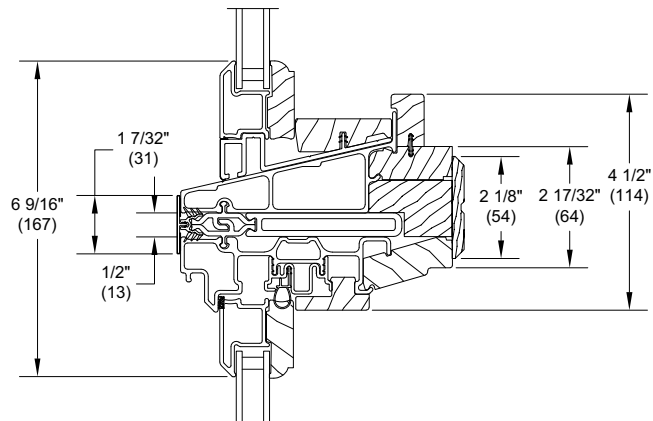
Scale: 3" = 1' 0"



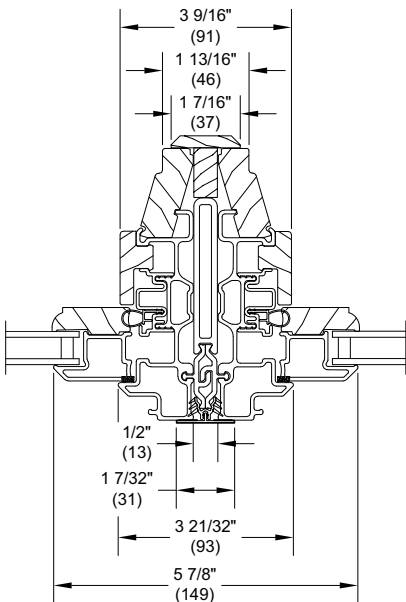
Horizontal Transom  
Over Operating Unit



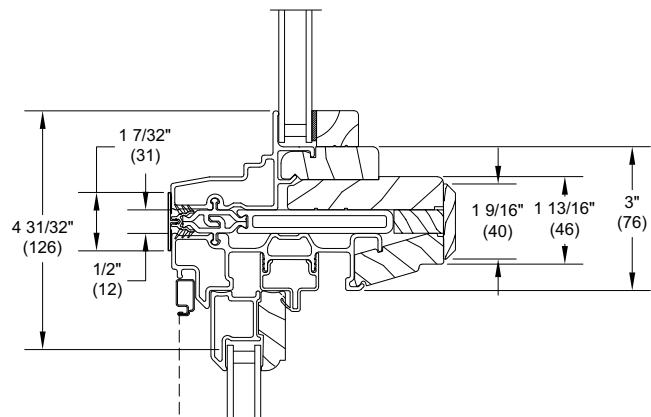
Vertical Double Hung Units 2 Wide



Horizontal Transom  
Over Picture Unit



Vertical Picture Unit 2 Wide

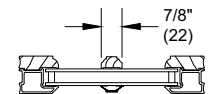


NOTE: Units shown do not have Interior Jamb Caps.

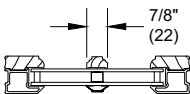
**Divided Lite Options**

Scale: 3" = 1' 0"

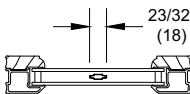
**Divided Lite Options**



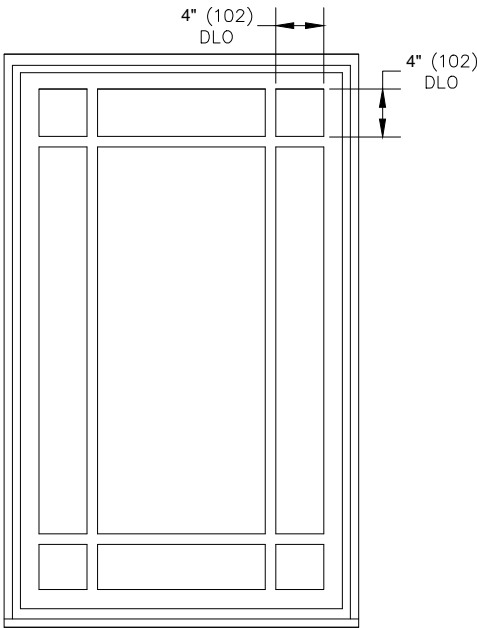
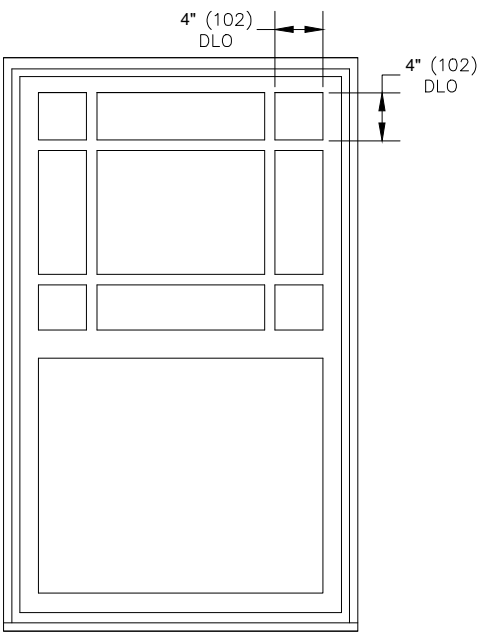
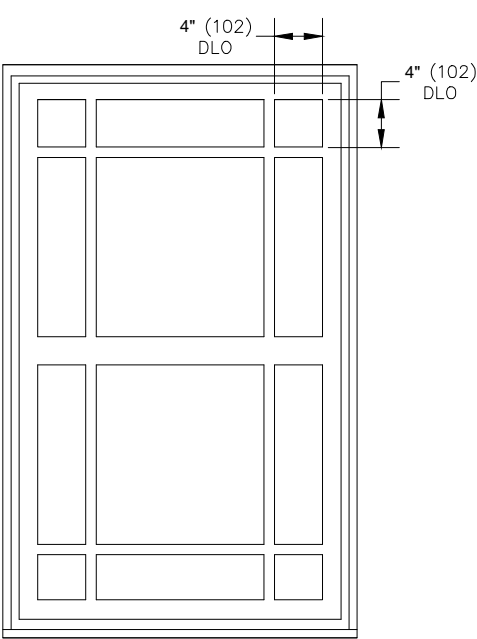
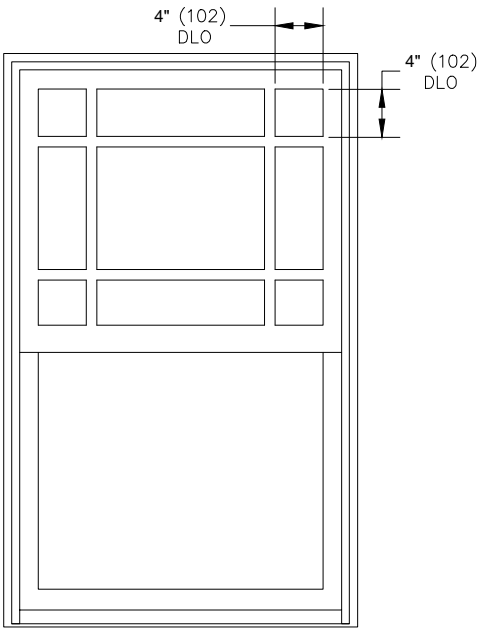
**Wood SDL Without  
Spacer Bar**



**Wood SDL With  
Spacer Bar**



**Aluminum Grille  
Between Glass**



## Available Divided Lite Patterns

Scale: 3" = 1' 0"

### Double Hung - Operator

#### Default Rectangular Lite Pattern per Sash - GBG, SDL

| Standard<br>CN | Standard CN Width |      |      |      |      |      |      |      |      |      |
|----------------|-------------------|------|------|------|------|------|------|------|------|------|
|                | 22                | 26   | 30   | 32   | 34   | 36   | 38   | 42   | 48   | 54   |
| 36             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 40             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 44             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 48             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 52             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 56             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 60             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 64             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 68             | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H |
| 72             | 2W3H              | 3W3H | 3W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 4W3H | 5W3H |
| 76             | 2W3H              | 3W3H | 3W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 4W3H | 5W3H |
| 80             | 2W3H              | 3W3H | 3W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 4W3H | 5W3H |
| 84             | 2W3H              | 3W3H | 3W3H | 3W3H | 3W3H | 3W3H | 4W3H | 4W3H | 4W3H | 5W3H |

NOTE: For Cottage/Reverse Cottage Style units Lite Patterns will be 2H or 3H by ( )W, depending whether top or bottom sash of Cottage/Reverse Cottage unit, from the Chart Above. Frame size not to exceed CN68 in height or less than CN36 in height. CN 50 Width is not available as "standard", and must be ordered as a "special size" unit. However, Lite Pattern according to chart will apply.

### Double Hung - Operator

#### Optional Standard Cottage Pattern per Sash - GBG, SDL

| Standard<br>CN Height | Standard CN Width |        |        |        |        |        |        |        |        |        |
|-----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 22                | 26     | 30     | 32     | 34     | 36     | 38     | 42     | 48     | 54     |
| All Heights           | 3-Lite            | 4-Lite | 4-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 5-Lite | 6-Lite |

**Available Divided Lite Patterns**

Scale: 3" = 1' 0"

**Double Hung - Picture/Transom**
**Default Rectangular Lite Pattern per Sash - GBG, SDL**

| Standard<br>CN Height | Standard CN Width |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|
|                       | 22                | 26   | 30   | 32   | 34   | 36   | 38   | 42   | 48   | 50   | 54   | 62   |
| 16                    | 2W1H              | 3W1H | 3W1H | 3W1H | 3W1H | 3W1H | 4W1H | 4W1H | 4W1H | 5W1H | 5W1H | 6W1H |
| 24                    | 2W2H              | 3W2H | 3W2H | 3W2H | 3W2H | 3W2H | 4W2H | 4W2H | 4W2H | 5W2H | 5W2H | 6W2H |
| 36                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 40                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 44                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 48                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 52                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 56                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 60                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 64                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 68                    | 2W4H              | 3W4H | 3W4H | 3W4H | 3W4H | 3W4H | 4W4H | 4W4H | 4W4H | 5W4H | 5W4H | 6W4H |
| 72                    | 2W6H              | 3W6H | 3W6H | 3W6H | 3W6H | 3W6H | 4W6H | 4W6H | 4W6H | 5W6H | 5W6H | 6H6H |
| 76                    | 2W6H              | 3W6H | 3W6H | 3W6H | 3W6H | 3W6H | 4W6H | 4W6H | 4W6H | 5W6H | 5W6H | 6H6H |
| 80                    | 2W6H              | 3W6H | 3W6H | 3W6H | 3W6H | 3W6H | 4W6H | 4W6H | 4W6H | 5W6H | 5W6H | 6H6H |
| 84                    | 2W6H              | 3W6H | 3W6H | 3W6H | 3W6H | 3W6H | 4W6H | 4W6H | 4W6H | 5W6H | 5W6H | 6H6H |

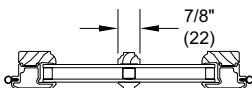
**Optional Standard Cottage Pattern per Sash - GBG, SDL**

| Standard<br>CN Height | Standard CN Width |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 22                | 26     | 30     | 32     | 34     | 36     | 38     | 42     | 48     | 50     | 54     | 62     |
| Picture<br>Heights    | 3-Lite            | 4-Lite | 4-Lite | 4-Lite | 4-Lite | 4-Lite | 5-Lite | 5-Lite | 5-Lite | 6-Lite | 6-Lite | 7-Lite |

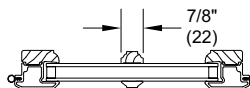
## Available Divided Lite Patterns

### NOTES:

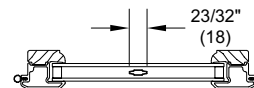
- Direct Glaze Round Top with GBG or SDL will only align with the default lite cut of the unit it is intended to be mulled with.
- Rectangle GBGs for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie patterns, Cottage patterns, and customer specified equal rectangular lite patterns.
- Rectangular SDL for special size units will default to the next smaller standard size lite pattern. Also available will be Prairie patterns, Cottage patterns, and customer specified equal rectangular lite patterns.
- Prairie GBG and SDL available in 9 lite and 6 lite top, bottom, left, and right patterns.
- Cottage GBGs and SDL for special sizes units will default to the next smaller standard size lite pattern. Cottage GBGs and SDL are also available in customer selected lite patterns.
- Round Top lite patterns will not align with Double Hung optional GBG or SDL lite patterns.
- Maximum number of lites wide and high for equal lite SDL option is 11 lites.
- Minimum DLO measurement for equal lite SDL option is 4" (102) and will be validated by OMS.
- Minimum DLO measurement for equal lite GBG option is 3" (76) and will be validated by OMS.
- Standard DLO measurement for Prairie GBG and SDL options is 4" (102). Special DLO corners are n/a.
- Standard DLO height measurement for Cottage SDL option is 10" (254). Minimum DLO height is 8" (203) for one high pattern. Minimum DLO height is 4" (102) for two high pattern.
- Standard DLO height measurement for Cottage GBG option is 10" (254). Minimum DLO height is 3" (76) for both one and two high patterns.
- Simulated Rail: Rectangular, Prairie 6-Lite and 9-Lite SDL patterns are available with Simulated Rail.
- Simulated Rail: Custom ratio and specified DLO are available with Simulated Rail and will be validated by OMS.
- GBGs are not available on IZ3



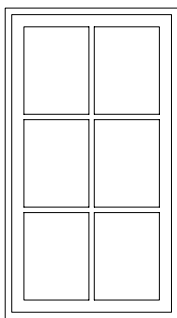
Wood SDL With Spacer Bar



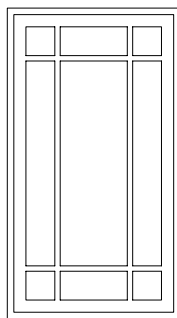
Wood SDL Without Spacer Bar



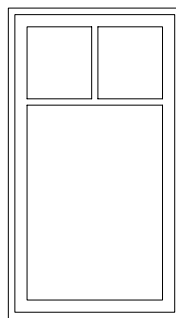
Aluminum Grille Between Glass  
GBG



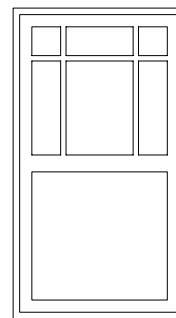
**Rectangle GBG  
or SDL**



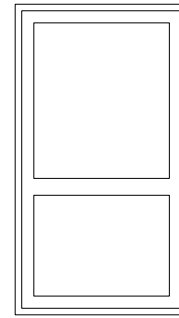
**Prairie  
GBG or SDL**



**Cottage  
GBG or SDL**



**Prairie SDL  
w/ Simulate  
Check Rail**



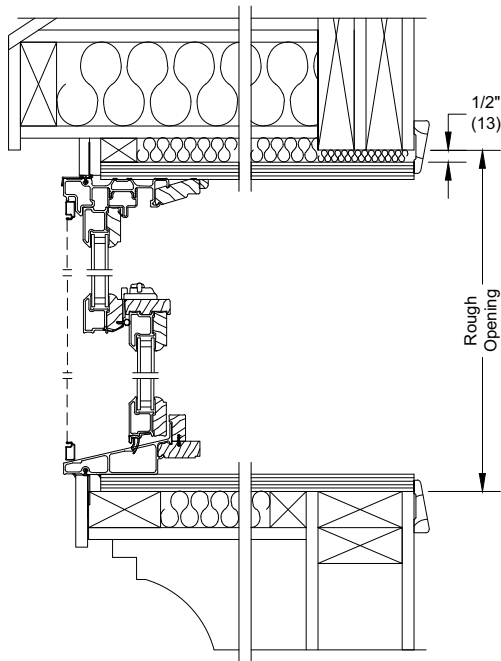
**Custom  
Simulated Rail**

### Conversions Formula:

$$\frac{\text{Total DLO} - \text{Total Bar Width}}{\text{Number of lites}} = \text{Individual DLO}$$

## 30° Bay Units

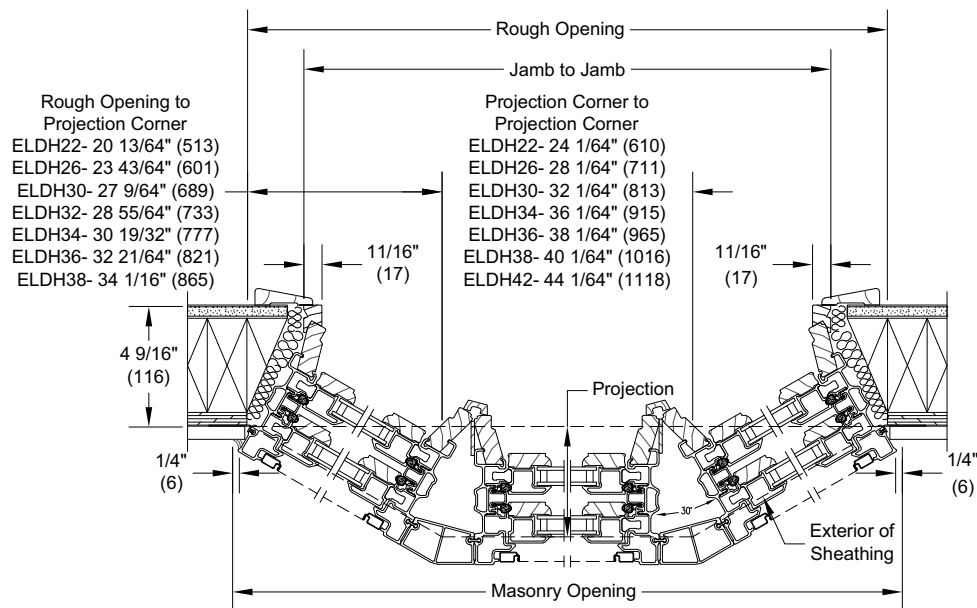
Scale: 3/4" = 1' 0"



| Double Hung Bay / Bow Height Dimensions |         |           |        |           |        |
|-----------------------------------------|---------|-----------|--------|-----------|--------|
| CN                                      |         | MO Height |        | RO Height |        |
| Operable                                | Picture | ft-in     | mm     | ft-in     | mm     |
| 24                                      | N/A     | 2-1 7/16  | (646)  | 2-1 11/16 | (652)  |
| 36                                      | N/A     | 3-1 7/16  | (951)  | 3-1 11/16 | (957)  |
| 40                                      | 40      | 3-5 7/16  | (1053) | 3-5 11/16 | (1059) |
| 44                                      | 44      | 3-9 7/16  | (1154) | 3-9 11/16 | (1160) |
| 48                                      | 48      | 4-1 7/16  | (1256) | 4-1 11/16 | (1262) |
| 52                                      | 52      | 4-5 7/16  | (1357) | 4-5 11/16 | (1364) |
| 56                                      | 56      | 4-9 7/16  | (1459) | 4-9 11/16 | (1465) |
| 60                                      | 60      | 5-1 7/16  | (1561) | 5-1 11/16 | (1567) |
| 64                                      | 64      | 5-5 7/16  | (1662) | 5-5 11/16 | (1668) |
| 68                                      | 68      | 5-9 7/16  | (1764) | 5-9 11/16 | (1770) |
| 72                                      | N/A     | 6-1 7/16  | (1865) | 6-1 11/16 | (1872) |
| 76                                      | N/A     | 6-5 7/16  | (1967) | 6-5 11/16 | (1973) |
| 80                                      | N/A     | 6-9 7/16  | (2069) | 6-9 11/16 | (2075) |
| 84                                      | N/A     | 7-1 7/16  | (2170) | 7-1 11/16 | (2176) |

### NOTES:

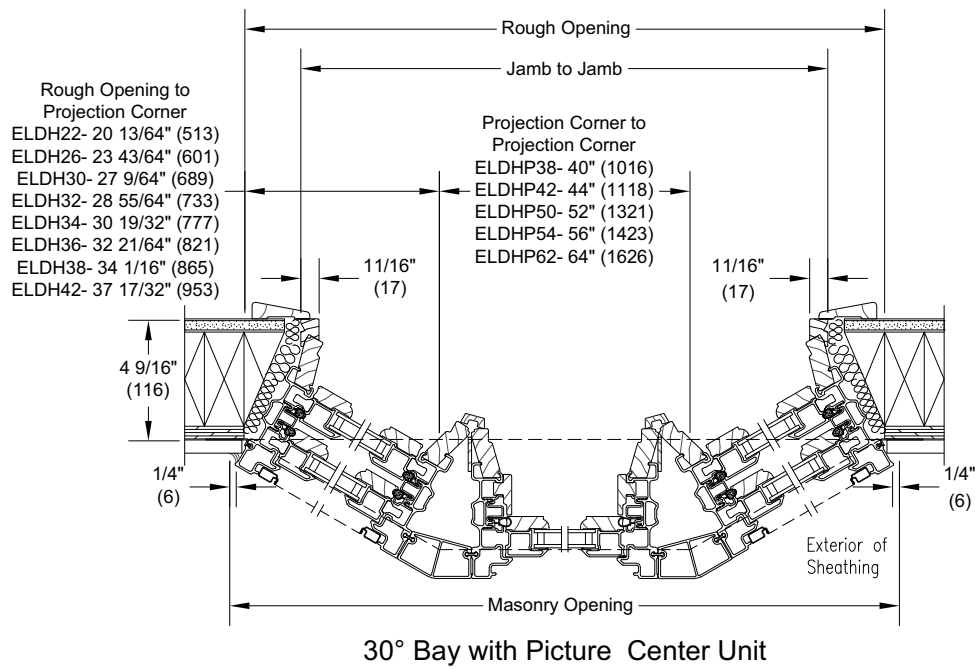
- IZ3 glazed units are not available in Bow/Bay configuration.
- Structural support members supplied by others.
- Units shown do not have Interior Jamb Caps.



30° Bay with Operator Center Unit

## 30° Bay Units

Scale: 3/4" = 1' 0"



### NOTES:

- Factory assembled bay units include head and seat boards.
- Structural support members and interior trim supplied by others.
- IZ3 glazed units are not available in Bay configurations.
- Units shown do not have Interior Jamb Caps.

# 30° Bay Units - Width Dimensions

| 30 Degree Double Hung Bay - Width Dimensions |            |        |            |        |              |        |            |       |
|----------------------------------------------|------------|--------|------------|--------|--------------|--------|------------|-------|
| CN                                           | MO Width   |        | RO Width   |        | Jamb to Jamb |        | Projection |       |
|                                              | ft-in      | mm     | ft-in      | mm     | ft-in        | mm     | ft-in      | mm    |
| 22 Wide Units                                |            |        |            |        |              |        |            |       |
| 22-22-22                                     | 5-4 63/64  | (1650) | 5-4 27/64  | (1636) | 4-11 15/32   | (1510) | 0-11 3/8   | (289) |
| 22-26-22                                     | 5-8 63/64  | (1752) | 5-8 27/64  | (1738) | 5-3 15/32    | (1612) | 0-11 3/8   | (289) |
| 22-30-22                                     | 6-0 63/64  | (1854) | 6-0 27/64  | (1840) | 5-7 15/32    | (1714) | 0-11 3/8   | (289) |
| 22-32-22                                     | 6-2 63/64  | (1904) | 6-2 27/64  | (1890) | 5-9 15/32    | (1764) | 0-11 3/8   | (289) |
| 22-34-22                                     | 6-4 63/64  | (1955) | 6-4 27/64  | (1941) | 5-11 15/32   | (1815) | 0-11 3/8   | (289) |
| 22-36-22                                     | 6-6 63/64  | (2006) | 6-6 27/64  | (1992) | 6-1 15/32    | (1866) | 0-11 3/8   | (289) |
| 22-38-22                                     | 6-8 63/64  | (2057) | 6-8 27/64  | (2043) | 6-3 15/32    | (1917) | 0-11 3/8   | (289) |
| 22-42-22                                     | 7-0 63/64  | (2158) | 7-0 27/64  | (2144) | 6-7 15/32    | (2018) | 0-11 3/8   | (289) |
| 22-48-22                                     | 7-6 63/64  | (2311) | 7-6 27/64  | (2297) | 7-1 15/32    | (2171) | 0-11 3/8   | (289) |
| 22-50-22                                     | 7-8 63/64  | (2362) | 7-8 27/64  | (2348) | 7-3 15/32    | (2222) | 0-11 3/8   | (289) |
| 22-54-22                                     | 8-0 63/64  | (2463) | 8-0 27/64  | (2449) | 7-7 15/32    | (2323) | 0-11 3/8   | (289) |
| 22-62-22                                     | 8-8 63/64  | (2666) | 8-8 27/64  | (2652) | 8-3 15/32    | (2526) | 0-11 3/8   | (289) |
| 26 Wide Units                                |            |        |            |        |              |        |            |       |
| 26-22-26                                     | 5-11 29/32 | (1826) | 5-11 23/64 | (1812) | 5-6 25/64    | (1686) | 1-1 3/8    | (340) |
| 26-26-26                                     | 6-3 29/32  | (1928) | 6-3 23/64  | (1914) | 5-10 25/64   | (1788) | 1-1 3/8    | (340) |
| 26-30-26                                     | 6-7 29/32  | (2030) | 6-7 23/64  | (2016) | 6-2 25/64    | (1890) | 1-1 3/8    | (340) |
| 26-32-26                                     | 6-9 29/32  | (2080) | 6-9 23/64  | (2066) | 6-4 25/64    | (1940) | 1-1 3/8    | (340) |
| 26-34-26                                     | 6-11 29/32 | (2131) | 6-11 23/64 | (2117) | 6-6 25/64    | (1991) | 1-1 3/8    | (340) |
| 26-36-26                                     | 7-1 29/32  | (2182) | 7-1 23/64  | (2168) | 6-8 25/64    | (2042) | 1-1 3/8    | (340) |
| 26-38-26                                     | 7-3 29/32  | (2233) | 7-3 23/64  | (2219) | 6-10 25/64   | (2093) | 1-1 3/8    | (340) |
| 26-42-26                                     | 7-7 29/32  | (2334) | 7-7 23/64  | (2320) | 7-2 25/64    | (2194) | 1-1 3/8    | (340) |
| 26-48-26                                     | 8-1 29/32  | (2487) | 8-1 23/64  | (2473) | 7-8 25/64    | (2347) | 1-1 3/8    | (340) |
| 26-50-26                                     | 8-3 29/32  | (2538) | 8-3 23/64  | (2524) | 7-10 25/64   | (2398) | 1-1 3/8    | (340) |
| 26-54-26                                     | 8-7 29/32  | (2639) | 8-7 23/64  | (2625) | 8-2 25/64    | (2499) | 1-1 3/8    | (340) |
| 26-62-26                                     | 9-3 29/32  | (2842) | 9-3 23/64  | (2828) | 8-10 25/64   | (2702) | 1-1 3/8    | (340) |
| 30 Wide Units                                |            |        |            |        |              |        |            |       |
| 30-22-30                                     | 6-6 27/32  | (2002) | 6-6 9/32   | (1988) | 6-1 5/16     | (1862) | 1-3 3/8    | (391) |
| 30-26-30                                     | 6-10 27/32 | (2104) | 6-10 9/32  | (2090) | 6-5 5/16     | (1964) | 1-3 3/8    | (391) |
| 30-30-30                                     | 7-2 27/32  | (2206) | 7-2 9/32   | (2192) | 6-9 5/16     | (2066) | 1-3 3/8    | (391) |
| 30-32-30                                     | 7-4 27/32  | (2256) | 7-4 9/32   | (2242) | 6-11 5/16    | (2116) | 1-3 3/8    | (391) |
| 30-34-30                                     | 7-6 27/32  | (2307) | 7-6 9/32   | (2293) | 7-1 5/16     | (2167) | 1-3 3/8    | (391) |
| 30-36-30                                     | 7-8 27/32  | (2358) | 7-8 9/32   | (2344) | 7-3 5/16     | (2218) | 1-3 3/8    | (391) |
| 30-38-30                                     | 7-10 27/32 | (2409) | 7-10 9/32  | (2395) | 7-5 5/16     | (2269) | 1-3 3/8    | (391) |
| 30-42-30                                     | 8-2 27/32  | (2510) | 8-2 9/32   | (2496) | 7-9 5/16     | (2370) | 1-3 3/8    | (391) |
| 30-48-30                                     | 8-8 27/32  | (2663) | 8-8 9/32   | (2649) | 8-3 5/16     | (2523) | 1-3 3/8    | (391) |
| 30-50-30                                     | 8-10 27/32 | (2714) | 8-10 9/32  | (2700) | 8-5 5/16     | (2574) | 1-3 3/8    | (391) |
| 30-54-30                                     | 9-2 27/32  | (2815) | 9-2 9/32   | (2801) | 8-9 5/16     | (2675) | 1-3 3/8    | (391) |

## NOTES:

- White and Designer Black interior finish on head and seat boards is available at no additional charge for factory mulled bay assemblies only.

# 30° Bay Units - Width Dimensions

| 30 Degree Double Hung Bay - Width Dimensions |            |        |            |        |              |        |            |       |
|----------------------------------------------|------------|--------|------------|--------|--------------|--------|------------|-------|
| CN                                           | MO Width   |        | RO Width   |        | Jamb to Jamb |        | Projection |       |
|                                              | ft-in      | mm     | ft-in      | mm     | ft-in        | mm     | ft-in      | mm    |
| 32 Wide Units                                |            |        |            |        |              |        |            |       |
| 32-22-32                                     | 6-10 19/64 | (2090) | 6-9 3/4    | (2076) | 6-4 25/32    | (1950) | 1-4 3/8    | (416) |
| 32-26-32                                     | 7-2 19/64  | (2192) | 7-1 3/4    | (2178) | 6-8 25/32    | (2052) | 1-4 3/8    | (416) |
| 32-30-32                                     | 7-6 19/64  | (2294) | 7-5 3/4    | (2280) | 7-0 25/32    | (2153) | 1-4 3/8    | (416) |
| 32-32-32                                     | 7-8 19/64  | (2344) | 7-7 3/4    | (2330) | 7-2 25/32    | (2204) | 1-4 3/8    | (416) |
| 32-34-32                                     | 7-10 19/64 | (2395) | 7-9 3/4    | (2381) | 7-4 25/32    | (2255) | 1-4 3/8    | (416) |
| 32-36-32                                     | 8-0 19/64  | (2446) | 7-11 3/4   | (2432) | 7-6 25/32    | (2306) | 1-4 3/8    | (416) |
| 32-38-32                                     | 8-2 19/64  | (2497) | 8-1 3/4    | (2483) | 7-8 25/32    | (2357) | 1-4 3/8    | (416) |
| 32-42-32                                     | 8-6 19/64  | (2598) | 8-5 3/4    | (2584) | 8-0 25/32    | (2458) | 1-4 3/8    | (416) |
| 32-48-32                                     | 9-0 19/64  | (2751) | 8-11 3/4   | (2737) | 8-6 25/32    | (2611) | 1-4 3/8    | (416) |
| 32-50-32                                     | 9-2 19/64  | (2802) | 9-1 3/4    | (2788) | 8-8 25/32    | (2661) | 1-4 3/8    | (416) |
| 34 Wide Units                                |            |        |            |        |              |        |            |       |
| 34-22-34                                     | 7-1 49/64  | (2178) | 7-1 13/64  | (2164) | 6-8 1/4      | (2038) | 1-5 3/8    | (441) |
| 34-26-34                                     | 7-5 49/64  | (2280) | 7-5 13/64  | (2266) | 7-0 1/4      | (2140) | 1-5 3/8    | (441) |
| 34-30-34                                     | 7-9 49/64  | (2382) | 7-9 13/64  | (2368) | 7-4 1/4      | (2241) | 1-5 3/8    | (441) |
| 34-32-34                                     | 7-11 49/64 | (2432) | 7-11 13/64 | (2418) | 7-6 1/4      | (2292) | 1-5 3/8    | (441) |
| 34-34-34                                     | 8-1 49/64  | (2483) | 8-1 13/64  | (2469) | 7-8 1/4      | (2343) | 1-5 3/8    | (441) |
| 34-36-34                                     | 8-3 49/64  | (2534) | 8-3 13/64  | (2520) | 7-10 1/4     | (2394) | 1-5 3/8    | (441) |
| 34-38-34                                     | 8-5 49/64  | (2585) | 8-5 13/64  | (2571) | 8-0 1/4      | (2445) | 1-5 3/8    | (441) |
| 34-42-34                                     | 8-9 49/64  | (2686) | 8-9 13/64  | (2672) | 8-4 1/4      | (2546) | 1-5 3/8    | (441) |
| 34-48-34                                     | 9-3 49/64  | (2839) | 9-3 13/64  | (2825) | 8-10 1/4     | (2699) | 1-5 3/8    | (441) |
| 34-50-34                                     | 9-5 49/64  | (2890) | 9-5 13/64  | (2876) | 9-0 1/4      | (2749) | 1-5 3/8    | (441) |
| 36 Wide Units                                |            |        |            |        |              |        |            |       |
| 36-22-36                                     | 7-5 15/64  | (2266) | 7-4 43/64  | (2252) | 6-11 23/32   | (2126) | 1-6 3/8    | (467) |
| 36-26-36                                     | 7-9 15/64  | (2368) | 7-8 43/64  | (2354) | 7-3 23/32    | (2228) | 1-6 3/8    | (467) |
| 36-30-36                                     | 8-1 15/64  | (2470) | 8-0 43/64  | (2456) | 7-7 23/32    | (2329) | 1-6 3/8    | (467) |
| 36-32-36                                     | 8-3 15/64  | (2520) | 8-2 43/64  | (2506) | 7-9 23/32    | (2380) | 1-6 3/8    | (467) |
| 36-34-36                                     | 8-5 15/64  | (2571) | 8-4 43/64  | (2557) | 7-11 23/32   | (2431) | 1-6 3/8    | (467) |
| 36-36-36                                     | 8-7 15/64  | (2622) | 8-6 43/64  | (2608) | 8-1 23/32    | (2482) | 1-6 3/8    | (467) |
| 36-38-36                                     | 8-9 15/64  | (2673) | 8-8 43/64  | (2659) | 8-3 23/32    | (2533) | 1-6 3/8    | (467) |
| 36-42-36                                     | 9-1 15/64  | (2774) | 9-0 43/64  | (2760) | 8-7 23/32    | (2634) | 1-6 3/8    | (467) |

## NOTES:

- White and Designer Black interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

# 30° Bay Units - Width Dimensions

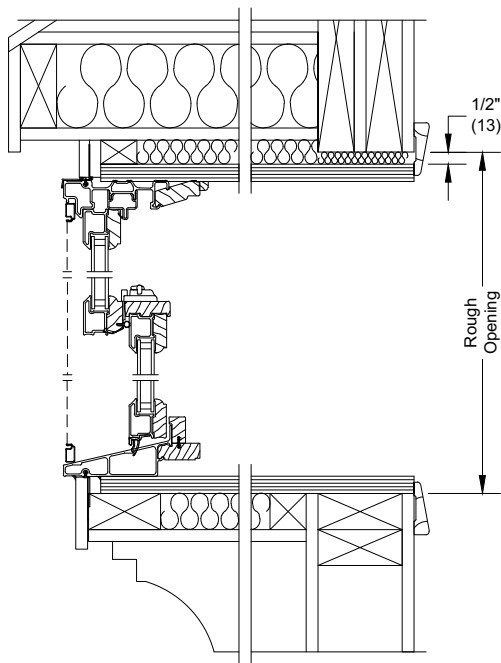
| 30 Degree Double Hung Bay - Width Dimensions |            |        |           |        |              |        |            |       |
|----------------------------------------------|------------|--------|-----------|--------|--------------|--------|------------|-------|
| CN                                           | MO Width   |        | RO Width  |        | Jamb to Jamb |        | Projection |       |
|                                              | ft-in      | mm     | ft-in     | mm     | ft-in        | mm     | ft-in      | mm    |
| 38 Wide Units                                |            |        |           |        |              |        |            |       |
| 38-22-38                                     | 7-8 11/16  | (2354) | 7-8 9/64  | (2340) | 7-3 11/64    | (2214) | 1-7 3/8    | (492) |
| 38-26-38                                     | 8-0 11/16  | (2456) | 8-0 9/64  | (2442) | 7-7 11/64    | (2316) | 1-7 3/8    | (492) |
| 38-30-38                                     | 8-4 11/16  | (2558) | 8-4 9/64  | (2544) | 7-11 11/64   | (2417) | 1-7 3/8    | (492) |
| 38-32-38                                     | 8-6 11/16  | (2608) | 8-6 9/64  | (2594) | 8-1 11/64    | (2468) | 1-7 3/8    | (492) |
| 38-34-38                                     | 8-8 11/16  | (2659) | 8-8 9/64  | (2645) | 8-3 11/64    | (2519) | 1-7 3/8    | (492) |
| 38-36-38                                     | 8-10 11/16 | (2710) | 8-10 9/64 | (2696) | 8-5 11/64    | (2570) | 1-7 3/8    | (492) |
| 38-38-38                                     | 9-0 11/16  | (2761) | 9-0 9/64  | (2747) | 8-7 11/64    | (2621) | 1-7 3/8    | (492) |
| 38-42-38                                     | 9-4 11/16  | (2862) | 9-4 9/64  | (2848) | 8-11 11/64   | (2722) | 1-7 3/8    | (492) |
| 42 Wide Units                                |            |        |           |        |              |        |            |       |
| 42-22-42                                     | 8-3 5/8    | (2530) | 8-3 1/16  | (2516) | 7-10 7/64    | (2390) | 1-9 3/8    | (543) |
| 42-26-42                                     | 8-7 5/8    | (2632) | 8-7 1/16  | (2618) | 8-2 7/64     | (2492) | 1-9 3/8    | (543) |
| 42-30-42                                     | 8-11 5/8   | (2734) | 8-11 1/16 | (2719) | 8-6 7/64     | (2593) | 1-9 3/8    | (543) |
| 42-32-42                                     | 9-1 5/8    | (2784) | 9-1 1/16  | (2770) | 8-8 7/64     | (2644) | 1-9 3/8    | (543) |
| 42-34-42                                     | 9-3 5/8    | (2835) | 9-3 1/16  | (2821) | 8-10 7/64    | (2695) | 1-9 3/8    | (543) |
| 42-36-42                                     | 9-5 5/8    | (2886) | 9-5 1/16  | (2872) | 9-0 7/64     | (2746) | 1-9 3/8    | (543) |
| 42-38-42                                     | 9-7 5/8    | (2937) | 9-7 1/16  | (2923) | 9-2 7/64     | (2797) | 1-9 3/8    | (543) |

## NOTES:

- White and Designer Black interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

45° Bay Units

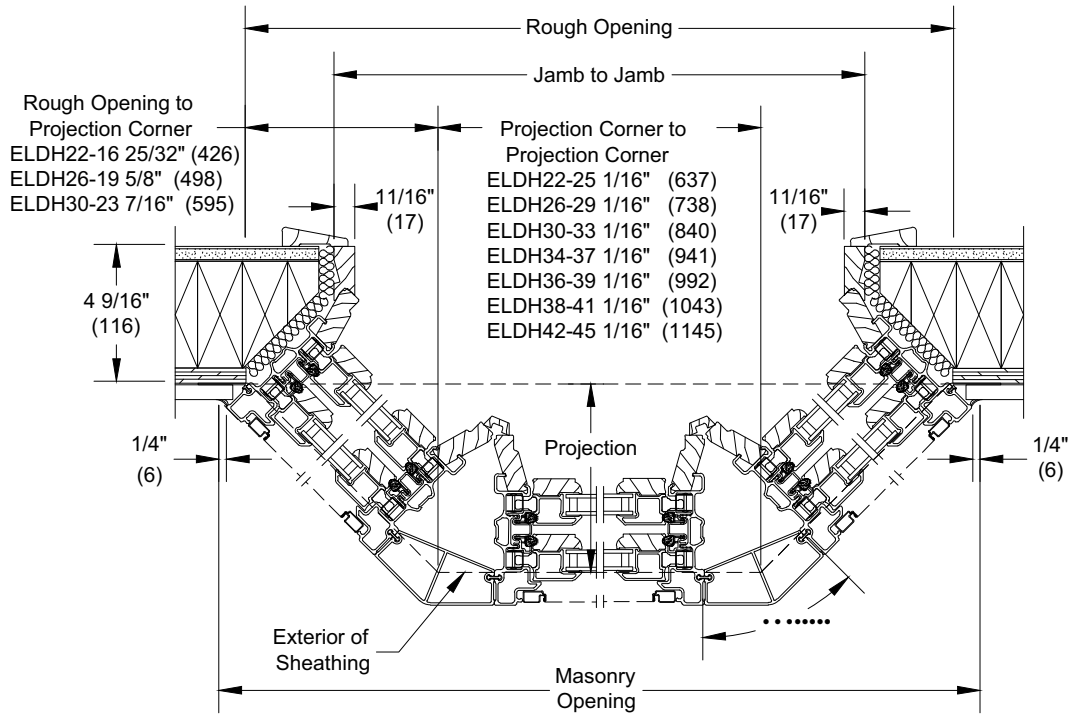
Scale: 3/4" = 1' 0"



| Double Hung Bay / Bow Height Dimensions |         |           |        |           |        |
|-----------------------------------------|---------|-----------|--------|-----------|--------|
| CN                                      |         | MO Height |        | RO Height |        |
| Operable                                | Picture | ft-in     | mm     | ft-in     | mm     |
| 24                                      | N/A     | 2-1 7/16  | (646)  | 2-1 11/16 | (652)  |
| 36                                      | N/A     | 3-1 7/16  | (951)  | 3-1 11/16 | (957)  |
| 40                                      | 40      | 3-5 7/16  | (1053) | 3-5 11/16 | (1059) |
| 44                                      | 44      | 3-9 7/16  | (1154) | 3-9 11/16 | (1160) |
| 48                                      | 48      | 4-1 7/16  | (1256) | 4-1 11/16 | (1262) |
| 52                                      | 52      | 4-5 7/16  | (1357) | 4-5 11/16 | (1364) |
| 56                                      | 56      | 4-9 7/16  | (1459) | 4-9 11/16 | (1465) |
| 60                                      | 60      | 5-1 7/16  | (1561) | 5-1 11/16 | (1567) |
| 64                                      | 64      | 5-5 7/16  | (1662) | 5-5 11/16 | (1668) |
| 68                                      | 68      | 5-9 7/16  | (1764) | 5-9 11/16 | (1770) |
| 72                                      | N/A     | 6-1 7/16  | (1865) | 6-1 11/16 | (1872) |
| 76                                      | N/A     | 6-5 7/16  | (1967) | 6-5 11/16 | (1973) |
| 80                                      | N/A     | 6-9 7/16  | (2069) | 6-9 11/16 | (2075) |
| 84                                      | N/A     | 7-1 7/16  | (2170) | 7-1 11/16 | (2176) |

NOTES:

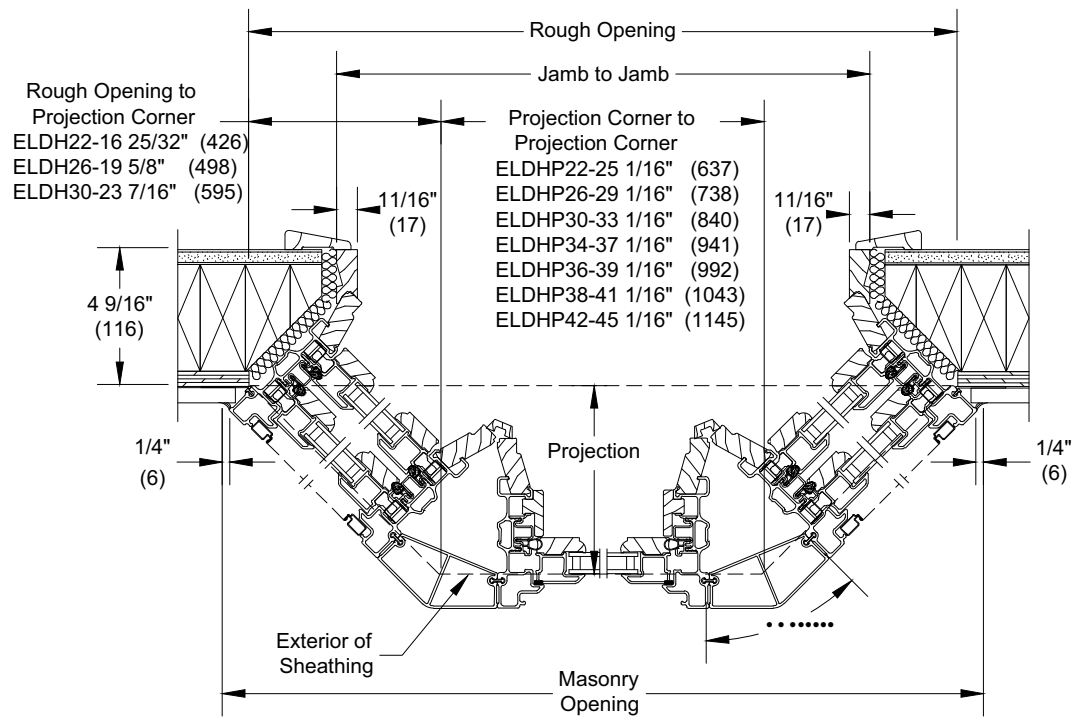
- IZ3 glazed units are not available in Bow/Bay configuration.
- Structural support members supplied by others.



45 degree Bay - Jamb Detail Operator Center Unit

## 45° Bay Units

Scale: 3/4" = 1' 0"



45 degree Bay - Jamb Detail Picture Center Unit

### NOTES:

- Factory assembled bay units include head and seat boards.
- Structural support members and interior trim supplied by others.
- IZ3 glazed units are not available in Bay configurations.

## 45° Bay Units - Width Dimensions

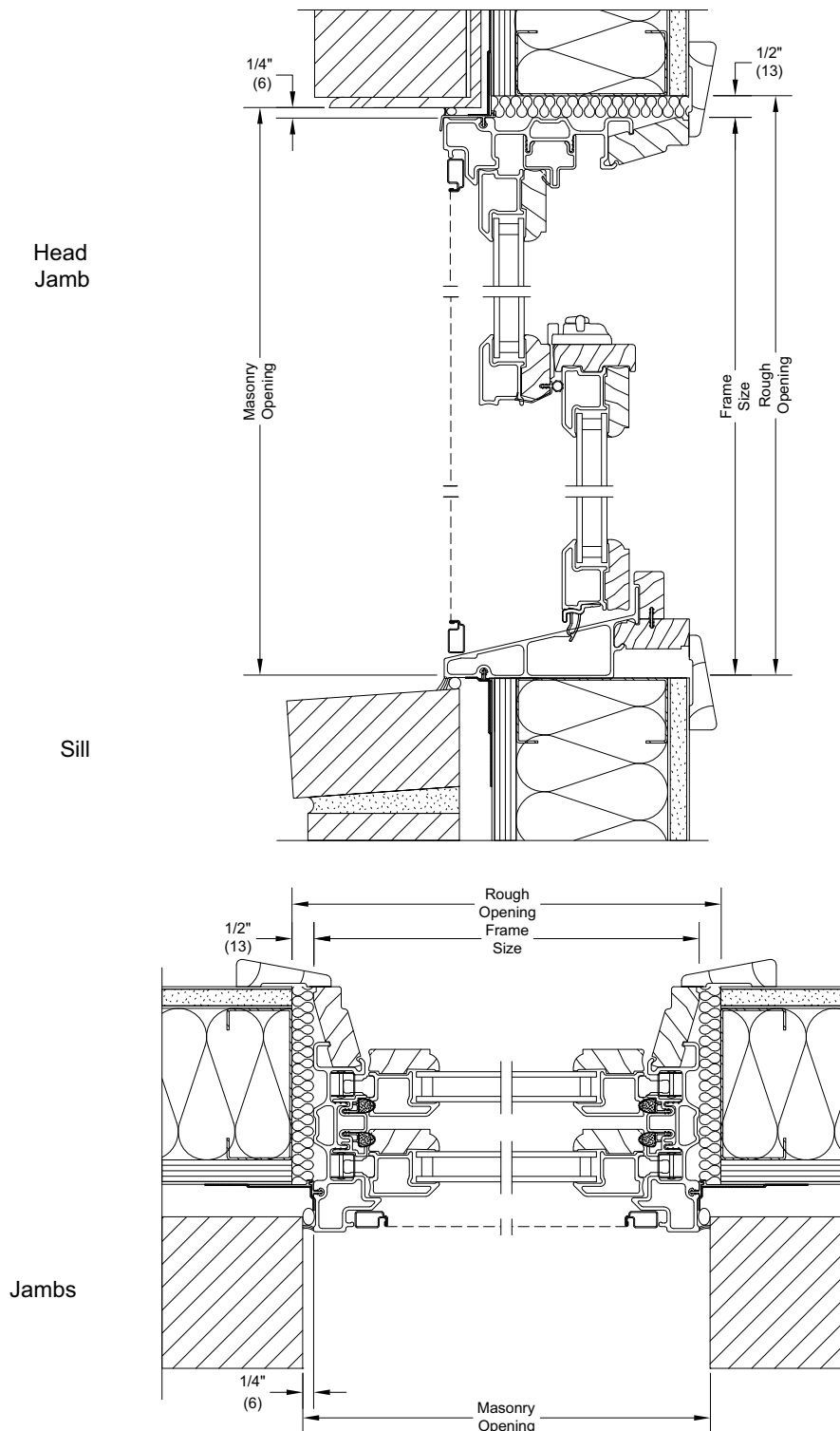
| 45 Degree Double Hung Bay - Width Dimensions |            |        |            |        |              |        |            |       |
|----------------------------------------------|------------|--------|------------|--------|--------------|--------|------------|-------|
| CN                                           | MO Width   |        | RO Width   |        | Jamb to Jamb |        | Projection |       |
|                                              | ft-in      | mm     | ft-in      | mm     | ft-in        | mm     | ft-in      | mm    |
| 22 Wide Units                                |            |        |            |        |              |        |            |       |
| 22-22-22                                     | 5-0 15/32  | (1536) | 4-11 15/32 | (1510) | 4-4 13/16    | (1342) | 1-4 9/16   | (421) |
| 22-26-22                                     | 5-4 15/32  | (1637) | 5-3 15/32  | (1612) | 4-8 13/16    | (1443) | 1-4 9/16   | (421) |
| 22-30-22                                     | 5-8 15/32  | (1739) | 5-7 15/32  | (1714) | 5-0 13/16    | (1545) | 1-4 9/16   | (421) |
| 22-32-22                                     | 5-10 15/32 | (1790) | 5-9 15/32  | (1764) | 5-2 13/16    | (1596) | 1-4 9/16   | (421) |
| 22-34-22                                     | 6-0 15/32  | (1841) | 5-11 15/32 | (1815) | 5-4 13/16    | (1646) | 1-4 9/16   | (421) |
| 22-36-22                                     | 6-2 15/32  | (1891) | 6-1 15/32  | (1866) | 5-6 13/16    | (1697) | 1-4 9/16   | (421) |
| 22-38-22                                     | 6-4 15/32  | (1942) | 6-3 15/32  | (1917) | 5-8 13/16    | (1748) | 1-4 9/16   | (421) |
| 22-42-22                                     | 6-8 15/32  | (2044) | 6-7 15/32  | (2018) | 6-0 13/16    | (1850) | 1-4 9/16   | (421) |
| 22-48-22                                     | 7-2 15/32  | (2196) | 7-1 15/32  | (2171) | 6-6 13/16    | (2002) | 1-4 9/16   | (421) |
| 22-50-22                                     | 7-4 15/32  | (2247) | 7-3 15/32  | (2222) | 6-8 13/16    | (2053) | 1-4 9/16   | (421) |
| 22-54-22                                     | 7-8 15/32  | (2349) | 7-7 15/32  | (2323) | 7-0 13/16    | (2154) | 1-4 9/16   | (421) |
| 22-62-22                                     | 8-4 15/32  | (2552) | 8-3 15/32  | (2526) | 7-8 13/16    | (2358) | 1-4 9/16   | (421) |
| 26 Wide Units                                |            |        |            |        |              |        |            |       |
| 26-22-26                                     | 5-6 1/8    | (1679) | 5-5 1/8    | (1654) | 4-10 15/32   | (1485) | 1-7 25/64  | (492) |
| 26-26-26                                     | 5-10 1/8   | (1781) | 5-9 1/8    | (1756) | 5-2 15/32    | (1587) | 1-7 25/64  | (492) |
| 26-30-26                                     | 6-2 1/8    | (1883) | 6-1 1/8    | (1857) | 5-6 15/32    | (1688) | 1-7 25/64  | (492) |
| 26-32-26                                     | 6-4 1/8    | (1933) | 6-3 1/8    | (1908) | 5-8 15/32    | (1739) | 1-7 25/64  | (492) |
| 26-34-26                                     | 6-6 1/8    | (1984) | 6-5 1/8    | (1959) | 5-10 15/32   | (1790) | 1-7 25/64  | (492) |
| 26-36-26                                     | 6-8 1/8    | (2035) | 6-7 1/8    | (2010) | 6-0 15/32    | (1841) | 1-7 25/64  | (492) |
| 26-38-26                                     | 6-10 1/8   | (2086) | 6-9 1/8    | (2060) | 6-2 15/32    | (1892) | 1-7 25/64  | (492) |
| 26-42-26                                     | 7-2 1/8    | (2187) | 7-1 1/8    | (2162) | 6-6 15/32    | (1993) | 1-7 25/64  | (492) |
| 26-48-26                                     | 7-8 1/8    | (2340) | 7-7 1/8    | (2314) | 7-0 15/32    | (2146) | 1-7 25/64  | (492) |
| 26-50-26                                     | 7-10 1/8   | (2391) | 7-9 1/8    | (2365) | 7-2 15/32    | (2196) | 1-7 25/64  | (492) |
| 26-54-26                                     | 8-2 1/8    | (2492) | 8-1 1/8    | (2467) | 7-6 15/32    | (2298) | 1-7 25/64  | (492) |
| 26-62-26                                     | 8-10 1/8   | (2695) | 8-9 1/8    | (2670) | 8-2 15/32    | (2501) | 1-7 25/64  | (492) |
| 30 Wide Units                                |            |        |            |        |              |        |            |       |
| 30-22-30                                     | 5-11 25/32 | (1823) | 5-10 25/32 | (1798) | 5-4 1/8      | (1629) | 1-10 7/32  | (564) |
| 30-26-30                                     | 6-3 25/32  | (1925) | 6-2 25/32  | (1899) | 5-8 1/8      | (1731) | 1-10 7/32  | (564) |
| 30-30-30                                     | 6-7 25/32  | (2026) | 6-6 25/32  | (2001) | 6-0 1/8      | (1832) | 1-10 7/32  | (564) |
| 30-32-30                                     | 6-9 25/32  | (2077) | 6-8 25/32  | (2052) | 6-2 1/8      | (1883) | 1-10 7/32  | (564) |
| 30-34-30                                     | 6-11 25/32 | (2128) | 6-10 25/32 | (2103) | 6-4 1/8      | (1934) | 1-10 7/32  | (564) |
| 30-36-30                                     | 7-1 25/32  | (2179) | 7-0 25/32  | (2153) | 6-6 1/8      | (1985) | 1-10 7/32  | (564) |
| 30-38-30                                     | 7-3 25/32  | (2230) | 7-2 25/32  | (2204) | 6-8 1/8      | (2035) | 1-10 7/32  | (564) |
| 30-42-30                                     | 7-7 25/32  | (2331) | 7-6 25/32  | (2306) | 7-0 1/8      | (2137) | 1-10 7/32  | (564) |
| 30-48-30                                     | 8-1 25/32  | (2484) | 8-0 25/32  | (2458) | 7-6 1/8      | (2289) | 1-10 7/32  | (564) |
| 30-50-30                                     | 8-3 25/32  | (2534) | 8-2 25/32  | (2509) | 7-8 1/8      | (2340) | 1-10 7/32  | (564) |
| 30-54-30                                     | 8-7 25/32  | (2636) | 8-6 25/32  | (2611) | 8-0 1/8      | (2442) | 1-10 7/32  | (564) |
| 30-62-30                                     | 9-3 25/32  | (2839) | 9-2 25/32  | (2814) | 8-8 1/8      | (2645) | 1-10 7/32  | (564) |

### NOTES:

- White and Designer Black interior finish on head and seat board is available at no additional charge for factory mulled bay assemblies only.

**Section Details: Installation Suggestion - Brick Veneer With Steel Frame Construction**

Scale: 1 1/2" = 1' 0"

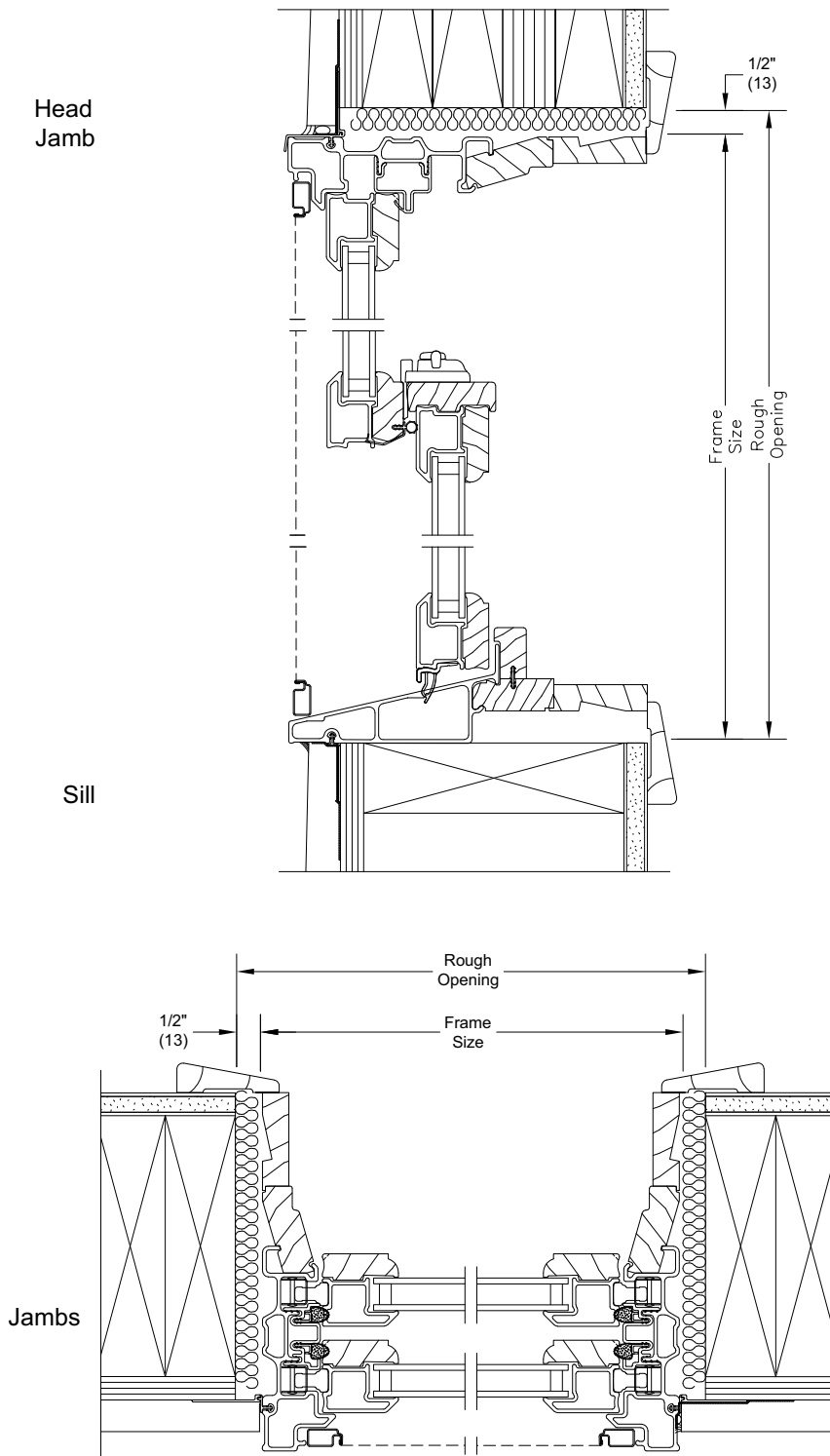


**NOTES:**

- Picture unit installation similar.
- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.

**Section Details: Installation Suggestion - Wood Siding With 2x6 Frame Construction**

Scale: 1 1/2" = 1' 0"



**NOTES:**

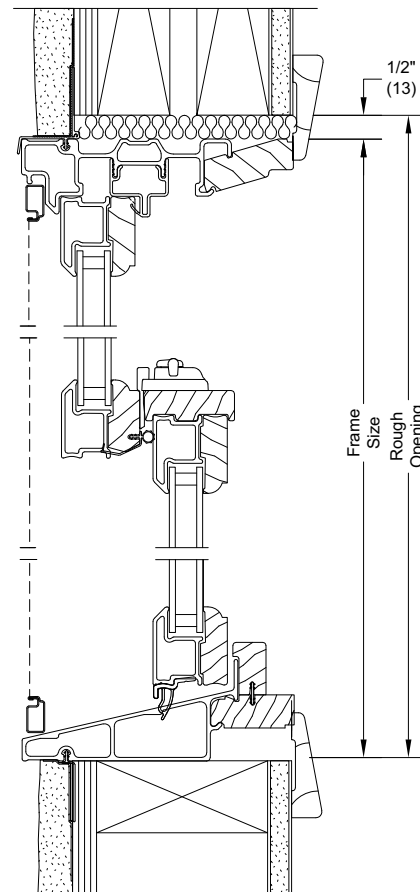
- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.
- Picture unit installation similar. Picture units may require both nailing fin and installation brackets.
- Double Hung unit shown with jamb extension.

**Section Details: Installation Suggestion - Stucco With 2x4 Frame Construction**

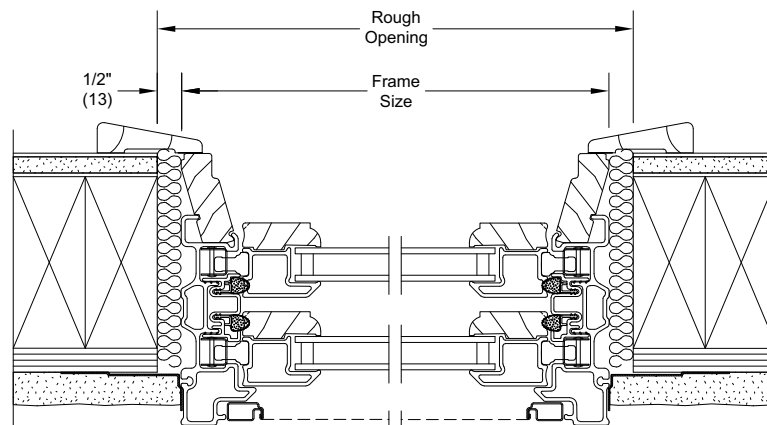
Scale: 1 1/2" = 1' 0"

Head  
Jamb

Sill



Jambs



**NOTES:**

- The above wall sections represent typical wall conditions, these details are not intended as installation instructions. Please refer to the installation instructions provided with the purchased units.
- Picture unit installation similar.