

Sizes for V1 Series Coastal Watch Single-Hung Windows with Nailing Flange - Approved for HVHZ
FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH NAILING FIN
SINGLE-HUNG - MODEL 2127IMPACTFIN - STANDARD WINDOW SIZES

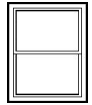
| NOMINAL WINDOW SIZE | ACTUAL WINDOW SIZE (FRAME TTT) | | ROUGH OPENING SIZE | | CLEAR OPENING SIZE | | CLEAR OPENING SQ. FT. | VISIBLE GLASS PER OPENING | | TOTAL VISIBLE GLASS SQ. FT. |
|---------------------|--------------------------------|-----------------|--------------------|-----------------|--------------------|-----------------|-----------------------|---------------------------|-------------------|-----------------------------|
| | WIDTH | HEIGHT | WIDTH | HEIGHT | WIDTH | HEIGHT | | WIDTH | HEIGHT | |
| 2/0 x 3/0 | 23 3/8 | x 35 1/4 | 23 7/8 | x 35 3/4 | 19 1/16 | x 11 15/16 | 1.58 | 19 1/16 | x 14 13/16 | 3.92 |
| 2/0 x 3/8 | 23 3/8 | x 43 1/4 | 23 7/8 | x 43 3/4 | 19 1/16 | x 15 15/16 | 2.11 | 19 1/16 | x 18 13/16 | 4.98 |
| 2/0 x 4/0 | 23 3/8 | x 47 1/4 | 23 7/8 | x 47 3/4 | 19 1/16 | x 16 11/16 | 2.21 | 19 1/16 | x 20 13/16 | 5.51 |
| 2/0 x 4/4 | 23 3/8 | x 51 1/4 | 23 7/8 | x 51 3/4 | 19 1/16 | x 18 11/16 | 2.48 | 19 1/16 | x 22 13/16 | 6.04 |
| 2/0 x 4/6 | 23 3/8 | x 53 1/4 | 23 7/8 | x 53 3/4 | 19 1/16 | x 19 11/16 | 2.61 | 19 1/16 | x 23 13/16 | 6.30 |
| 2/0 x 5/0 | 23 3/8 | x 59 1/4 | 23 7/8 | x 59 3/4 | 19 1/16 | x 22 11/16 | 3.01 | 19 1/16 | x 26 13/16 | 7.10 |
| 2/0 x 6/0 | 23 3/8 | x 71 1/4 | 23 7/8 | x 71 3/4 | 19 1/16 | x 28 11/16 | 3.80 | 19 1/16 | x 32 13/16 | 8.69 |
| 2/4 x 3/0 | 27 3/8 | x 35 1/4 | 27 7/8 | x 35 3/4 | 23 1/16 | x 11 15/16 | 1.91 | 23 1/16 | x 14 13/16 | 4.74 |
| 2/4 x 3/8 | 27 3/8 | x 43 1/4 | 27 7/8 | x 43 3/4 | 23 1/16 | x 14 11/16 | 2.36 | 23 1/16 | x 18 13/16 | 6.03 |
| 2/4 x 4/0 | 27 3/8 | x 47 1/4 | 27 7/8 | x 47 3/4 | 23 1/16 | x 16 11/16 | 2.68 | 23 1/16 | x 20 13/16 | 6.67 |
| 2/4 x 4/4 | 27 3/8 | x 51 1/4 | 27 7/8 | x 51 3/4 | 23 1/16 | x 18 11/16 | 3.00 | 23 1/16 | x 22 13/16 | 7.31 |
| 2/4 x 4/6 | 27 3/8 | x 53 1/4 | 27 7/8 | x 53 3/4 | 23 1/16 | x 19 11/16 | 3.16 | 23 1/16 | x 23 13/16 | 7.63 |
| 2/4 x 5/0 | 27 3/8 | x 59 1/4 | 27 7/8 | x 59 3/4 | 23 1/16 | x 22 11/16 | 3.64 | 23 1/16 | x 26 13/16 | 8.59 |
| 2/4 x 6/0 | 27 3/8 | x 71 1/4 | 27 7/8 | x 71 3/4 | 23 1/16 | x 28 11/16 | 4.60 | 23 1/16 | x 32 13/16 | 10.51 |
| 2/8 x 3/0 | 31 3/8 | x 35 1/4 | 31 7/8 | x 35 3/4 | 27 1/16 | x 10 11/16 | 2.01 | 27 1/16 | x 14 13/16 | 5.57 |
| 2/8 x 3/8 | 31 3/8 | x 43 1/4 | 31 7/8 | x 43 3/4 | 27 1/16 | x 14 11/16 | 2.77 | 27 1/16 | x 18 13/16 | 7.07 |
| 2/8 x 4/0 | 31 3/8 | x 47 1/4 | 31 7/8 | x 47 3/4 | 27 1/16 | x 16 11/16 | 3.14 | 27 1/16 | x 20 13/16 | 7.82 |
| 2/8 x 4/4 | 31 3/8 | x 51 1/4 | 31 7/8 | x 51 3/4 | 27 1/16 | x 18 11/16 | 3.52 | 27 1/16 | x 22 13/16 | 8.57 |
| 2/8 x 4/6 | 31 3/8 | x 53 1/4 | 31 7/8 | x 53 3/4 | 27 1/16 | x 19 11/16 | 3.71 | 27 1/16 | x 23 13/16 | 8.95 |
| 2/8 x 5/0 | 31 3/8 | x 59 1/4 | 31 7/8 | x 59 3/4 | 27 1/16 | x 22 11/16 | 4.27 | 27 1/16 | x 26 13/16 | 10.08 |
| 2/8 x 6/0 | 31 3/8 | x 71 1/4 | 31 7/8 | x 71 3/4 | 27 1/16 | x 27 1/2 | 5.17 | 27 1/16 | x 32 13/16 | 12.33 |
| 3/0 x 3/0 | 35 3/8 | x 35 1/4 | 35 7/8 | x 35 3/4 | 31 1/16 | x 10 11/16 | 2.31 | 31 1/16 | x 14 13/16 | 6.39 |
| 3/0 x 3/8 | 35 3/8 | x 43 1/4 | 35 7/8 | x 43 3/4 | 31 1/16 | x 14 11/16 | 3.17 | 31 1/16 | x 18 13/16 | 8.12 |
| 3/0 x 4/0 | 35 3/8 | x 47 1/4 | 35 7/8 | x 47 3/4 | 31 1/16 | x 16 11/16 | 3.61 | 31 1/16 | x 20 13/16 | 8.98 |
| 3/0 x 4/4 | 35 3/8 | x 51 1/4 | 35 7/8 | x 51 3/4 | 31 1/16 | x 18 11/16 | 4.04 | 31 1/16 | x 22 13/16 | 9.84 |
| 3/0 x 4/6 | 35 3/8 | x 53 1/4 | 35 7/8 | x 53 3/4 | 31 1/16 | x 19 11/16 | 4.25 | 31 1/16 | x 23 13/16 | 10.27 |
| 3/0 x 5/0 | 35 3/8 | x 59 1/4 | 35 7/8 | x 59 3/4 | 31 1/16 | x 22 11/16 | 4.90 | 31 1/16 | x 26 13/16 | 11.57 |
| 3/0 x 6/0^ | 35 3/8 | x 71 1/4 | 35 7/8 | x 71 3/4 | 31 1/16 | x 27 1/2 | 5.93 | 31 1/16 | x 32 13/16 | 14.16 |
| 3/4 x 3/0 | 39 3/8 | x 35 1/4 | 39 7/8 | x 35 3/4 | 35 1/16 | x 10 11/16 | 2.61 | 35 1/16 | x 14 13/16 | 7.21 |
| 3/4 x 3/8 | 39 3/8 | x 43 1/4 | 39 7/8 | x 43 3/4 | 35 1/16 | x 14 11/16 | 3.58 | 35 1/16 | x 18 13/16 | 9.16 |
| 3/4 x 4/0 | 39 3/8 | x 47 1/4 | 39 7/8 | x 47 3/4 | 35 1/16 | x 16 11/16 | 4.07 | 35 1/16 | x 20 13/16 | 10.14 |
| 3/4 x 4/4 | 39 3/8 | x 51 1/4 | 39 7/8 | x 51 3/4 | 35 1/16 | x 18 11/16 | 4.56 | 35 1/16 | x 22 13/16 | 11.11 |
| 3/4 x 4/6 | 39 3/8 | x 53 1/4 | 39 7/8 | x 53 3/4 | 35 1/16 | x 19 11/16 | 4.80 | 35 1/16 | x 23 13/16 | 11.60 |
| 3/4 x 5/0 | 39 3/8 | x 59 1/4 | 39 7/8 | x 59 3/4 | 35 1/16 | x 21 1/2 | 5.23 | 35 1/16 | x 26 13/16 | 13.06 |
| 3/4 x 6/0^ | 39 3/8 | x 71 1/4 | 39 7/8 | x 71 3/4 | 35 1/16 | x 27 1/2 | 6.69 | 35 1/16 | x 32 13/16 | 15.98 |
| 3/8 x 3/0 | 43 3/8 | x 35 1/4 | 43 7/8 | x 35 3/4 | 39 1/16 | x 10 11/16 | 2.91 | 39 1/16 | x 14 13/16 | 8.04 |
| 3/8 x 3/8 | 43 3/8 | x 43 1/4 | 43 7/8 | x 43 3/4 | 39 1/16 | x 14 11/16 | 3.99 | 39 1/16 | x 18 13/16 | 10.21 |
| 3/8 x 4/0 | 43 3/8 | x 47 1/4 | 43 7/8 | x 47 3/4 | 39 1/16 | x 16 11/16 | 4.53 | 39 1/16 | x 20 13/16 | 11.29 |
| 3/8 x 4/4 | 43 3/8 | x 51 1/4 | 43 7/8 | x 51 3/4 | 39 1/16 | x 17 1/2 | 4.75 | 39 1/16 | x 22 13/16 | 12.38 |
| 3/8 x 4/6 | 43 3/8 | x 53 1/4 | 43 7/8 | x 53 3/4 | 39 1/16 | x 18 1/2 | 5.02 | 39 1/16 | x 23 13/16 | 12.92 |
| 3/8 x 5/0 | 43 3/8 | x 59 1/4 | 43 7/8 | x 59 3/4 | 39 1/16 | x 21 1/2 | 5.83 | 39 1/16 | x 26 13/16 | 14.55 |
| 3/8 x 6/0^ | 43 3/8 | x 71 1/4 | 43 7/8 | x 71 3/4 | 39 1/16 | x 27 1/2 | 7.46 | 39 1/16 | x 32 13/16 | 17.80 |

Clear Opening Sizes are for one opening.

Visible Glass Sizes are for one lite of glass. Total Visible Glass is combined area of all lites of glass in entire unit.

To calculate actual glass size per opening, add 7/8" to the Visible Glass Width and add 7/8" to the Visible Glass Height.

^ **BOLD** type indicates window may meet clear opening/egress criteria of minimum 20" net opening width, minimum 24" net opening height and minimum 5.7 sq. ft. opening area. See following page for custom window sizes.



Sizes for V1 Series Coastal Watch Single-Hung Windows with Masonry Flange - Approved for HVHZ

FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE
SINGLE-HUNG - MODEL 2127IMPACTFL - STANDARD WINDOW SIZES

| NOMINAL (BLOCK) SIZE | ACTUAL WINDOW SIZE | | EXTERIOR DIMENSION INCL MASONRY FLANGE | | ROUGH OPENING SIZE | | CLEAR OPENING SIZE | | CLEAR OPENING SQ. FT. | VISIBLE GLASS PER OPENING | | TOTAL VISIBLE GLASS SQ. FT. |
|----------------------------|-----------------------|----------|--|----------|--------------------------|----------|--------------------------|------------|-----------------------------|------------------------------|------------|--------------------------------------|
| | WIDTH | HEIGHT | WIDTH | HEIGHT | WIDTH | HEIGHT | WIDTH | HEIGHT | | WIDTH | HEIGHT | |
| 1 x 2 | 18 | x 24 7/8 | 19 | x 25 7/8 | 18 1/2 | x 25 3/8 | 13 11/16 | x 6 3/4 | 0.64 | 13 11/16 | x 9 5/8 | 1.83 |
| 1 x 3 | 18 | x 37 1/4 | 19 | x 38 1/4 | 18 1/2 | x 37 3/4 | 13 11/16 | x 12 15/16 | 1.23 | 13 11/16 | x 15 13/16 | 3.01 |
| 1 x 4 | 18 | x 49 1/2 | 19 | x 50 1/2 | 18 1/2 | x 50 | 13 11/16 | x 19 1/16 | 1.81 | 13 11/16 | x 21 15/16 | 4.17 |
| 1 x 5 | 18 | x 61 7/8 | 19 | x 62 7/8 | 18 1/2 | x 62 3/8 | 13 11/16 | x 24 | 2.28 | 13 11/16 | x 28 1/8 | 5.35 |
| 1 x 6 | 18 | x 72 1/8 | 19 | x 73 1/8 | 18 1/2 | x 72 5/8 | 13 11/16 | x 29 1/8 | 2.77 | 13 11/16 | x 33 1/4 | 6.32 |
| 1/2 3 x 2 | 25 3/8 | x 24 7/8 | 26 3/8 | x 25 7/8 | 25 7/8 | x 25 3/8 | 21 1/16 | x 6 3/4 | 0.99 | 21 1/16 | x 9 5/8 | 2.82 |
| 1/2 3 x 3 | 25 3/8 | x 37 1/4 | 26 3/8 | x 38 1/4 | 25 7/8 | x 37 3/4 | 21 1/16 | x 12 15/16 | 1.89 | 21 1/16 | x 15 13/16 | 4.63 |
| 1/2 3 x 4 | 25 3/8 | x 49 1/2 | 26 3/8 | x 50 1/2 | 25 7/8 | x 50 | 21 1/16 | x 17 13/16 | 2.61 | 21 1/16 | x 21 15/16 | 6.42 |
| 1/2 3 x 5 | 25 3/8 | x 61 7/8 | 26 3/8 | x 62 7/8 | 25 7/8 | x 62 3/8 | 21 1/16 | x 24 | 3.51 | 21 1/16 | x 28 1/8 | 8.23 |
| 1/2 3 x 6 | 25 3/8 | x 72 1/8 | 26 3/8 | x 73 1/8 | 25 7/8 | x 72 5/8 | 21 1/16 | x 29 1/8 | 4.26 | 21 1/16 | x 33 1/4 | 9.73 |
| 2 x 2 | 35 7/8 | x 24 7/8 | 36 7/8 | x 25 7/8 | 36 3/8 | x 25 3/8 | 31 9/16 | x 6 3/4 | 1.48 | 31 9/16 | x 9 5/8 | 4.22 |
| 2 x 3 | 35 7/8 | x 37 1/4 | 36 7/8 | x 38 1/4 | 36 3/8 | x 37 3/4 | 31 9/16 | x 11 11/16 | 2.57 | 31 9/16 | x 15 13/16 | 6.93 |
| 2 x 4 | 35 7/8 | x 49 1/2 | 36 7/8 | x 50 1/2 | 36 3/8 | x 50 | 31 9/16 | x 17 13/16 | 3.91 | 31 9/16 | x 21 15/16 | 9.62 |
| 2 x 5^ | 35 7/8 | x 61 7/8 | 36 7/8 | x 62 7/8 | 36 3/8 | x 62 3/8 | 31 9/16 | x 26 1/4 | 5.75 | 31 9/16 | x 28 1/8 | 12.33 |
| 2 x 6^ | 35 7/8 | x 72 1/8 | 36 7/8 | x 73 1/8 | 36 3/8 | x 72 5/8 | 31 9/16 | x 27 15/16 | 6.12 | 31 9/16 | x 33 1/4 | 14.58 |
| 3 x 2 | 52 | x 24 7/8 | 53 | x 25 7/8 | 52 1/2 | x 25 3/8 | 47 11/16 | x 5 1/2 | 1.83 | 47 11/16 | x 9 5/8 | 6.37 |
| 3 x 3 | 52 | x 37 1/4 | 53 | x 38 1/4 | 52 1/2 | x 37 3/4 | 47 11/16 | x 11 11/16 | 3.88 | 47 11/16 | x 15 13/16 | 10.47 |
| 3 x 4 | 52 | x 49 1/2 | 53 | x 50 1/2 | 52 1/2 | x 50 | 47 11/16 | x 16 5/8 | 5.50 | 47 11/16 | x 21 15/16 | 14.53 |
| 3 x 5 | 52 | x 61 7/8 | 53 | x 62 7/8 | 52 1/2 | x 62 3/8 | 47 11/16 | x 22 13/16 | 7.55 | 47 11/16 | x 28 1/8 | 18.63 |
| 3 x 6^ | 52 | x 72 1/8 | 53 | x 73 1/8 | 52 1/2 | x 72 5/8 | 47 11/16 | x 26 11/16 | 8.85 | 47 11/16 | x 33 1/4 | 22.02 |

Clear Opening Sizes are for one opening.

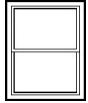
Visible Glass Sizes are for one lite of glass. Total Visible Glass is combined area of all lites of glass in entire unit.

To calculate actual glass size per opening, add 7/8" to the Visible Glass Width and add 7/8" to the Visible Glass Height.

^ **BOLD** type indicates window may meet clear opening/egress criteria of minimum 20" net opening width, minimum 24" net opening height and minimum 5.7 sq. ft. opening area.

Custom Sizes for V1 Series Coastal Watch Single-Hung Windows with Masonry or Nailing Flange - Approved for HVHZ

FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN SINGLE-HUNG - MODELS 2127IMPACTFL & 2127IMPACTFIN - CUSTOM WINDOW SIZES



| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|--------------------|---------|---------|
| Window Width (WW) | 18 | 52 |
| Window Height (WH) | 24 | 73 |
| United Inch (UI) | 42 | 125 |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.
 Add 1/2" to width and height for rough opening dimensions.
 Window can be ordered in 1/16" increments in height for masonry flange.
 Window can be ordered in 1/8" increments for nailing flange.
 Sizes listed are in inches unless otherwise indicated.

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|---------------------------|---------------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Glass | MROUND (WW - 3.438, 1/16) | MROUND ((WH / 2) - 1.938, 1/16) |

| VISIBLE GLASS FORMULAS | | |
|------------------------|------------|-------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Glass | GW - 0.875 | GH - 0.875 |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|---------------------|
| For Entire Unit | (VW * VH / 144) * 2 |

| CLEAR OPENING FORMULAS | | |
|------------------------|-------------|-----------------|
| BALANCER TYPE | WIDTH | HEIGHT |
| 1 Coil Balancer | WW - 4.3125 | WH / 2 - 5.69 |
| 2 Coil Balancers | WW - 4.3125 | WH / 2 - 6.91 |
| 3 Coil Balancers | WW - 4.3125 | WH / 2 - 8.13 |
| 4 Coil Balancers | WW - 4.3125 | WH / 2 - 9.35 |
| Block and Tackle | WW - 4.3125 | WH / 2 - 4.6875 |

Number of coils is based on unit size.
 Clear opening is for one opening.

| CLEAR OPENING SIZE REFERENCE CHART | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---------------|---------------------|---------------|------------|------------|------------|------------|------------|------------|------------|-------------|----------------|---------------|------------|------------|------------|------------|------------|------------|
| | | ACTUAL WINDOW WIDTH | | | | | | | | | | | | | | | | | |
| | | 18 | 18.01 - 19.99 | 20 - 21.99 | 22 - 23.99 | 24 - 25.99 | 26 - 27.99 | 28 - 29.99 | 30 - 31.99 | 32 - 33.99 | 34 - 35.874 | 35.875 - 36.24 | 36.25 - 37.99 | 38 - 39.99 | 40 - 41.99 | 42 - 43.99 | 44 - 45.99 | 46 - 47.99 | 48 - 49.99 |
| ACTUAL WINDOW HEIGHT | 24 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 24.01 - 25.99 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 26 - 27.99 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 28 - 29.99 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 30 - 31.99 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 32 - 33 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 34 - 35.99 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 36 - 37.99 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 38 - 39.99 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 40 - 41.99 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 42 - 43.99 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 44 - 45.99 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | 46 - 47.99 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| | 48 - 49.99 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| | 50 - 51.99 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| | 52 - 53.99 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | 54 - 55.99 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 56 - 57.99 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 58 - 59.99 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 60 - 61.874 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 61.875 - 63.874 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | BT | BT | BT | 3 | 3 | 3 | 3 | 3 | |
| 64.875 - 65.874 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | BT | BT | BT | 3 | 3 | 3 | 3 | 3 | |
| 65.875 - 67.874 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | BT | BT | 3 | 3 | 3 | 3 | 3 | 3 | |
| 68.875 - 69.874 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | BT | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| 67.875 - 70.875 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | |
| 70.875 - 71.99 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | |
| 72 - 73 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | |

- BT** Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24" with block & tackle balancer.
- 3** Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24" with 3 balancers.
- 4** Meet or exceed clear opening area of 5.7 sq. ft., clear opening width of 20" and clear opening height of 24" with 4 balancers.

For other sizes please refer to formulas above.

Custom Sizes for V1 Series Coastal Watch Single-Hung Picture Windows with Masonry or Nailing Flange - Approved for HVHZ



FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
SINGLE PICTURE WINDOW - MODEL 2130IMPACT - CUSTOM WINDOW SIZES

| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|--------------------|---------|---------|
| Window Width (WW) | 18" | 73" |
| Window Height (WH) | 18" | 73" |
| United Inch (UI) | 36" | 126" |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.

Add 1/2" to width and height for rough opening dimensions.

Window can be ordered in 1/8" increments for both width and height.

Sizes listed are in inches unless otherwise indicated.

| ACTUAL WINDOW HEIGHT | ACTUAL WINDOW WIDTH | |
|----------------------|---------------------|---------------|
| | 18 - 53 | 18 - 53 |
| 53 1/16 - 73 | | NOT AVAILABLE |

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|----------------------------|----------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Opening | MROUND (WW - 3.3125, 1/16) | MROUND (WH - 3.3125, 1/16) |

| VISIBLE GLASS FORMULAS | | |
|------------------------|------------|-------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Opening | GW - 1.125 | GH - 1.125 |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|---------------|
| For Entire Unit | VW * VH / 144 |

Custom Sizes for V1 Series Coastal Watch Single-Hung Half Circle Windows with Masonry or Nailing Flange - Approved for HVHZ



FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
HALF CIRCLE WINDOW - MODEL 2145IMPACT - CUSTOM WINDOW SIZES

| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|--------------------|---------|---------|
| Window Width (WW) | 24 | 73 |
| Window Height (WH) | 12 | 37 |
| United Inch (UI) | 36 | 110 |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.
Add 1/2" to width and height for rough opening dimensions.
Window can be ordered in 1/4" increments for both width and height.
Sizes listed are in inches unless otherwise indicated.

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|--|---------------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Opening | $MROUND (WW - 2 * 1.625 / (1.625 / (WH - \sqrt{WH * WH - 2 * WH * 1.625}))), 1/16$ | $MROUND (WH - 2 * 1.625, 1/16)$ |

| VISIBLE GLASS SIZE FORMULAS | | |
|-----------------------------|--------------|--------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Opening | $GW - 1.125$ | $GH - 1.125$ |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|-----------------------------------|
| For Entire Unit | $0.5 * 3.1416 * (VW / 2)^2 / 144$ |

Custom Sizes for V1 Series Coastal Watch Single-Hung Quarter Circle Windows with Masonry or Nailing Flange - Approved for HVHZ



FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
QUARTER CIRCLE WINDOW - MODEL 2132IMPACT - CUSTOM WINDOW SIZES

| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|--------------------|---------|---------|
| Window Width (WW) | 18 | 36 |
| Window Height (WH) | 18 | 36 |
| United Inch (UI) | 36 | 126 |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.

Add 1/2" to width and height for rough opening dimensions.

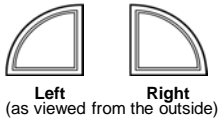
Window can be ordered in 1/4" increments for both width and height.

Sizes listed are in inches unless otherwise indicated.

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|----------------------------|----------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Opening | MROUND (WW - 3.3125), 1/16 | MROUND (WH - 3.3125, 1/16) |

| VISIBLE GLASS SIZE FORMULAS | | |
|-----------------------------|------------|-------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Opening | GW - 1.125 | GH - 1.125 |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|--------------------------------------|
| For Entire Unit | $0.25 * 3.1416 * (VW / 2) ^ 2 / 144$ |



**Sizes for V1 Series Coastal Watch Single-Hung Circle Windows with Masonry or Nailing Flange
- Approved for HVHZ**

FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
FULL CIRCLE WINDOW - MODEL 2138IMPACT - WINDOW SIZES



| NOMINAL WINDOW SIZE | ACTUAL WINDOW SIZE (FRAME TTT) | EXTERIOR DIMENSION INCL "J" CHANNEL | ROUGH OPENING SIZE | | VISIBLE GLASS PER OPENING | | TOTAL VISIBLE GLASS SQ. FT. |
|---------------------|--------------------------------|-------------------------------------|--------------------|----------|---------------------------|-----------|-----------------------------|
| | WIDTH & HEIGHT | WIDTH & HEIGHT | WIDTH | HEIGHT | WIDTH | HEIGHT | |
| 2/0 | 24 | 25 | 24 1/2 | x 24 1/2 | 19 9/16 | x 19 9/16 | 2.09 |
| 2/4 | 28 | 29 | 28 1/2 | x 28 1/2 | 23 9/16 | x 23 9/16 | 3.03 |
| 2/8 | 32 | 33 | 32 1/2 | x 32 1/2 | 27 9/16 | x 27 9/16 | 4.14 |
| 3/0 | 36 | 37 | 36 1/2 | x 36 1/2 | 31 9/16 | x 31 9/16 | 5.43 |
| 3/4 | 40 | 41 | 40 1/2 | x 40 1/2 | 35 9/16 | x 35 9/16 | 6.89 |
| 3/6 | 42 | 43 | 42 1/2 | x 42 1/2 | 37 9/16 | x 37 9/16 | 7.69 |
| 4/0 | 48 | 49 | 48 1/2 | x 48 1/2 | 43 9/16 | x 43 9/16 | 10.35 |

Visible Glass Sizes are for one lite of glass. Total Visible Glass is combined area of all lites of glass in entire unit.
To calculate actual glass size per opening, add 1 1/8" to the Visible Glass Width and add 1 1/8" to the Visible Glass Height.

Custom Sizes for V1 Series Coastal Watch Single-Hung Arch/Eyebrow Windows with Masonry or Nailing Flange - Approved for HVHZ

FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
EYEBROW WINDOW - MODEL 2133MPACT - CUSTOM WINDOW SIZES



| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|----------------------|---------|---------|
| Window Width (WW) | 18 | 73 |
| Window Height (WH) | 10 | 73 |
| Window Shoulder (WS) | 6 | 70 |
| United Inch (UI) | 28 | 126 |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.

Add 1/2" to width and height for rough opening dimensions.

Window can be ordered in 1/4" increments for both width and height.

Sizes listed are in inches unless otherwise indicated.

| ACTUAL WINDOW HEIGHT | ACTUAL WINDOW WIDTH | |
|----------------------|---------------------|---------------|
| 18 - 53 | 18 - 53 | 53 1/16 - 73 |
| 53 1/16 - 73 | | NOT AVAILABLE |

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|----------------------------|----------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Opening | MROUND (WW - 3.3125, 1/16) | MROUND (WH - 3.3125, 1/16) |

| VISIBLE GLASS SIZE FORMULAS | | |
|-----------------------------|------------|-------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Opening | GW - 1.125 | GH - 1.125 |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|--------------------------|
| For Entire Unit | CONTACT CUSTOMER SERVICE |

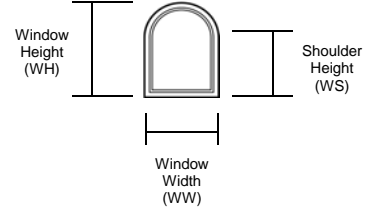
Custom Sizes for V1 Series Coastal Watch Single-Hung Palladian with Masonry or Nailing Flange - Approved for HVHZ



FORMERLY 2127 SERIES IMPACT RESISTANT SINGLE-HUNG WINDOW - WITH MASONRY FLANGE OR NAILING FIN
PALLADIAN WINDOW - MODEL 2134IMPACT - CUSTOM WINDOW SIZES

| ACTUAL WINDOW SIZE | MINIMUM | MAXIMUM |
|----------------------|---------|---------|
| Window Width (WW) | 24 | 73 |
| Window Height (WH) | 36 | 73 |
| Window Shoulder (WS) | 6 | 70 |
| United Inch (UI) | 60 | 126 |

Add 1" to width and height for Tip To Tip (TTT) masonry flange dimensions.
Add 1/2" to width and height for rough opening dimensions.
Window can be ordered in 1/4" increments for both width and height.
Sizes listed are in inches unless otherwise indicated.



| ACTUAL WINDOW HEIGHT | ACTUAL WINDOW WIDTH | |
|----------------------|---------------------|---------------|
| 36 - 53 | 23 1/2 - 53 | 53 1/8 - 73 |
| 53 1/8 - 73 | | NOT AVAILABLE |

| ACTUAL GLASS SIZE FORMULAS | | |
|----------------------------|----------------------------|----------------------------|
| | WIDTH (GW) | HEIGHT (GH) |
| Per Opening | MROUND (WW - 3.3125, 1/16) | MROUND (WH - 3.3125, 1/16) |

| VISIBLE GLASS SIZE FORMULAS | | |
|-----------------------------|------------|-------------|
| | WIDTH (VW) | HEIGHT (VH) |
| Per Opening | GW - 1.125 | GH - 1.125 |

| VISIBLE GLASS SQUARE FOOT FORMULA | |
|-----------------------------------|--|
| For Entire Unit | $0.5 * 3.1416 * (VW / 2)^2 / 144 + (VH - VW / 2) * VW / 144$ |