



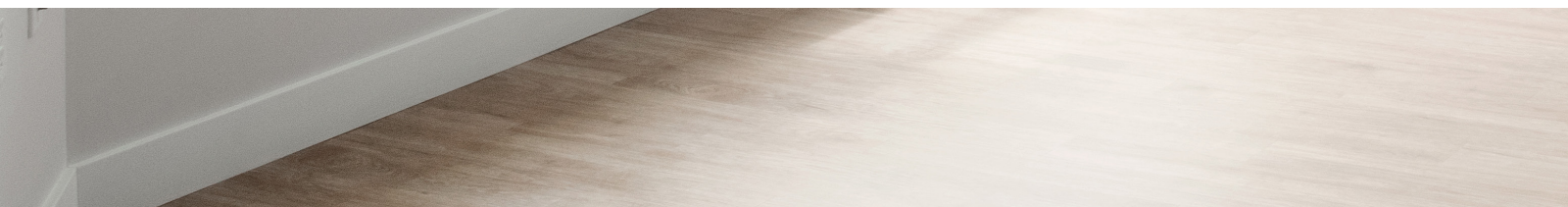
HARVEY

WINDOWS + DOORS






















REFERENCE GUIDE:










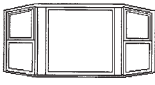
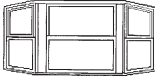
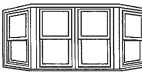



Call Sizes, Limitations, Thermal Data and Structural Specifications



VINYL UNIT LIMITATIONS

| | | | MIN | MAX | MAX UI |
|------------------------------|---|----------------------------------|---|----------------------------|--------|
| DOUBLE HUNG AND SINGLE UNITS |  | Tribute - Triple-pane | 16-1/4" (w) x 26" (h) | 41-3/4" (w) x 84" (h) | 116" |
| | | Tribute - Dual-pane | 16-1/4" (w) x 26" (h) | 48" (w) x 84" (h) | 132" |
| | | Classic | 16-1/4" (w) x 24" (h) | 48" (w) x 84" (h) | 132" |
| | | Slimline (DH & SH) | 16-1/4" (w) x 26-1/4" (h) | 54" (w) x 77" (h) | 123" |
| CASEMENT |  | 1-Lite Venting | 16" (w) x 18" (h) | 36" (w) x 80" (h) | 116" |
| | | 2-Lite Venting | 31-1/4" (w) x 18" (h) | 71-1/4" (w) x 80" (h) | 151" |
| | | 3-Lite Venting (EQUAL LITE ONLY) | 46-1/2" (w) x 18" (h) | 106-1/2" (w) x 80" (h) | 180" |
| | | 4-Lite Venting | 61-3/4" (w) x 18" (h) | 141-3/4" (w) x 80" (h) | 180" |
| AWNING |  | 1-Lite Venting | 20" (w) x 16" (h) | 64" (w) x 58" (h) | 106" |
| | | 2-Lite Venting | 39-1/4" (w) x 24" (h) | 48" (w) x 110" (h) | 162" |
| | | 3-Lite Venting | 58-1/2" (w) x 16" (h) | 141-3/4" (w) x 42" (h) | 180" |
| |  | AF1/AV1 Fixed Over Venting | 20" (w) x 31-1/4" (h) | 60" (w) x 121-1/4" (h) | 180" |
| | | 2-Lite Venting Vertical | 20" (w) x 31-1/4" (h) | 60" (w) x 83-1/4" (h) | 142" |
| | | 3-Lite Venting Vertical | 20" (w) x 46-1/2" (h) | 60" (w) x 124-1/2" (h) | 180" |
| ROLLING WINDOW |  | 2-Lite | 26" (w) x 16-1/4" (h) | 86-1/4" (w) x 62-1/2" (h) | 140" |
| | | 3-Lite | 37" (w) x 16-1/4" (h) | 119-3/4" (w) x 62-1/2" (h) | 180" |
| PICTURE WINDOW |  | | 12" (w) x 16" (h) or 16" (w) x 12" (h) | 79-3/4" (w) x 79-3/4" (h) | 144" |
| HOPPER |  | | 12" (w) x 16" (h) or 16" (w) x 12" (h) | 42" (w) x 41-3/4" (h) | 76" |
| PICTURE WINDOW CENTER BAY |  | 30° | 50-3/4" | 135-3/4" | - |
| | | 45° | 46-1/2" | 128" | - |
| DOUBLE HUNG CENTER BAY |  | 30° | 50-3/4" | 103" | - |
| | | 45° | 46-1/2" | 96" | - |
| TWIN DOUBLE HUNG BAY |  | 30° | 66" | 144" | - |
| | | 45° | 61-3/4" | 144" | - |
| THREE LITE BAY |  | 30° | 52-3/4" | 135-3/4" | - |
| | | 45° | 48-1/2" | 128" | - |
| THREE LITE BOW |  | 10° | 52-3/4" | 110" | - |
| FOUR LITE BAY |  | 30° | 68" | 127" | - |
| | | 45° | 63-3/4" | 119-1/4" | - |
| FOUR LITE BOW |  | 10° | 68-3/4" | 143" | - |
| FIVE LITE BAY |  | 30° | 83-1/4" | 143" | - |
| | | 45° | 79" | 143" | - |
| FIVE LITE BOW |  | 10° | 84-1/2" | 143" | - |
| SIX LITE BOW |  | 10° | 99" | 143" | - |
| GARDEN WINDOW |  | | 24" (w) x 30" (h) | 72" (w) x 48" (h) | - |
| DEADLITE |  | | 12" (w) x 18" (h) or 18" (w) x 12" (h) | 80-1/4" (w) x 80-1/4" (h) | 120" |

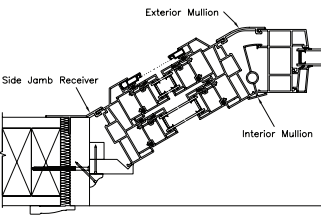
MAJESTY UNIT LIMITATIONS

| | | | MIN | MAX | MAX UI |
|---------------------------|---|--|-----------------------------|------------------------------|-----------|
| DOUBLE HUNG |  | | 16-1/2" (w) x 29-3/4" (h) | 48"(w) x 84" (h) | 126" |
| CASEMENT |  | 1-Lite Venting | 16" (w) x 16" (h) | 32" (w) x 72" (h) | 104-1/2" |
| |  | 2-Lite Venting | 32" (w) x 16" (h) | 64" (w) x 72" (h) | 124" |
| |  | 3-Lite Venting (EQUAL LITE ONLY) | 48" (w) x 16" (h) | 96" (w) x 72" (h) | 155" |
| |  | 4-Lite Venting | 64" (w) x 16" (h) | 106" (w) x 72" (h) | 172" |
| AWNING |  | Single Vent | 19" (w) x 16-1/4" (h) | 48" (w) x 38" (h) | 80"/unit |
| |  | Fixed Over Venting | 19" (w) x 24" (h) | 48" (w) x 110" (h) | 158"/unit |
| GLIDING WINDOW |  | 2-Lite | 27-3/16" (w) x 22-3/4" (h) | 71-3/16" (w) x 60-3/4" (h) | 131" |
| | | 3-Lite | 36-11/16" (w) x 22-3/4" (h) | 104-11/16" (w) x 60-3/4" (h) | 164" |
| PICTURE WINDOW |  | MATCHES DOUBLE HUNG FRAME | 16" (w) x 23-1/2" (h) | 78" (w) x 78" (h) | 139" |
| | | MATCHES CASEMENT FRAME | 12" (w) x 12" (h) | 60" (w) x 72" (h) | 132" |
| | | ONLY ONE DIMENSION (W OR H) CAN EXCEED 65" | | | |
| PICTURE WINDOW CENTER BAY |  | 30° | 52-3/4" | 133-1/2" | - |
| | | 45° | 49" | 126-1/2" | - |
| DOUBLE HUNG CENTER BAY |  | 30° | 52-3/4" | 103-1/2" | - |
| | | 45° | 49" | 96-1/2" | - |
| TWIN DOUBLE HUNG BAY |  | 30° | 68-3/4" | 144" | - |
| | | 45° | 65" | 144" | - |
| THREE LITE BAY |  | 30° | 52-3/4" | 120" | - |
| | | 45° | 49" | 120" | - |
| THREE LITE BOW | | 10° | 59-1/2" | 99-1/2" | - |
| FOUR LITE BAY |  | 30° | 69" | 119-1/2" | - |
| | | 45° | 65-1/4" | 112-1/2" | - |
| FOUR LITE BOW | | 10° | 68-1/4" | 130-3/4" | - |
| FIVE LITE BAY |  | 30° | 84-3/4" | 143" | - |
| | | 45° | 81" | 143" | - |
| FIVE LITE BOW | | 10° | 83-1/2" | 143" | - |

CUSTOM BAY/BOW, VINYL SHAPES LIMITATIONS

30° & 45° CUSTOM BAY WINDOWS SIZING INFORMATION

Using standard width flankers and a custom-sized center unit, they are available using either casement or Classic double hung windows.

| | Angle | Flanker Width | Flanker Allowance | Projection |
|---|-------|---------------|-------------------|------------|
|  | 30° | 1'5" | 36-3/4" | 9-3/8" |
| | | 1'9" | 43-5/8" | 11-3/8" |
| | | 2'0" | 48-7/8" | 12-7/8" |
| | | 2'4" | 55-3/4" | 14-7/8" |
| | 45° | 1'5" | 32-1/2" | 13-5/8" |
| | | 1'9" | 38-1/4" | 16-7/16" |
| | | 2'0" | 42-3/8" | 18-9/16" |
| | | 2'4" | 48-1/8" | 21-3/8" |











MEASURING

In most cases it will be necessary to remove the interior casing to obtain an accurate measurement.

Opening size for custom-sized bay and bow windows should be a rough stud to rough stud dimension.

Finished unit will allow approximately 1" on the width and approximately 1/2" on the height for clearance.

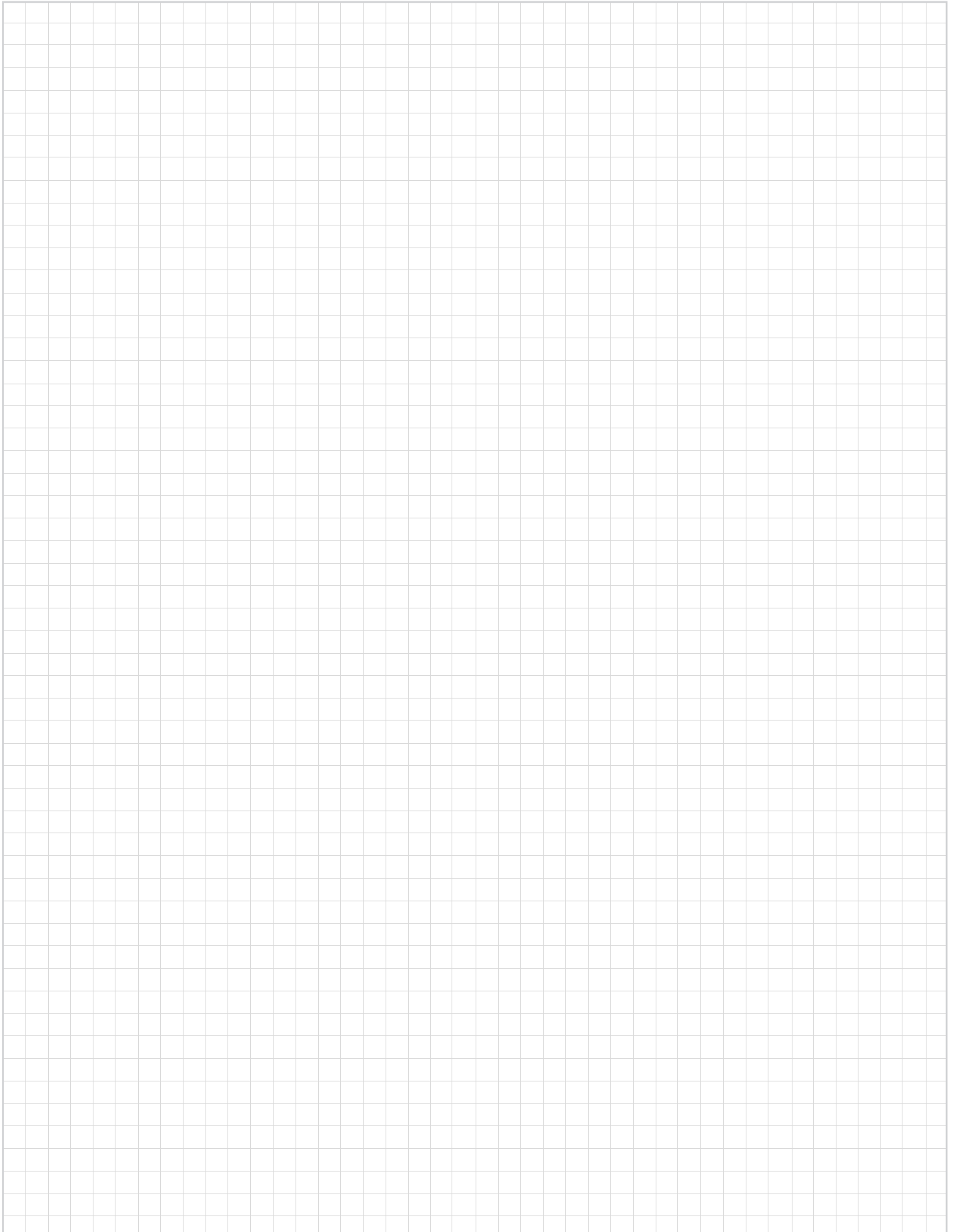
VINYL SHAPES

| SHAPE | | MIN | MAX |
|--------------------|---|---|---------------------------|
| HALF ROUND |  | 23-1/2" (w) x 11-3/4" (h) | 76" (w) x 38" (h) |
| QUARTER ROUND |  | 14" (w) x 14" (h) | 75-3/8" (w) x 75-3/8" (h) |
| SEGMENTAL |  | 39-3/8" (w) x 14" (h) | 120" (w) x 120" (h) |
| ELLIPTICAL |  | 39-1/8" (w) x 14-5/8" (h) | 120" (w) x 36" (h) |
| EXT. HALF ROUND |  | 23-1/2" (w) x 12" (h) | 76" (w) x 112-1/4" (h) |
| EXT. QUARTER ROUND |  | 14-1/4" (w) x 12" (h) | 76" (w) x 120" (h) |
| EXT. SEGMENTAL |  | 23-1/2" (w) x 12" (h) | 112" (w) x 120-1/2" (h) |
| GEOMETRIC SHAPES |  | CALL FOR DETAILS | |
| ROUND |  | 23-1/2" (w) x 23-1/2" (h) | 75-3/8" (w) x 75-3/8" (h) |
| OVAL |  | 25" (w) x 40" (h) 30" (w) x 48" (h) 38" (w) x 60" (h) | |

VINYL PATIO DOORS

| SHAPE | MIN | MAX |
|---------|--------------------|--|
| 2-Panel | 48" (w) x 60" (h) | 96" (w) x 96" (h) |
| 3-Panel | 90" (w) x 60" (h) | 144" (w) x 92" (h) 106 5/8" (w) x 95.5" (h) |
| 4-Panel | 115" (w) x 60" (h) | 192" (w) x 92" (h) 139 3/4" (w) x 95.5" (h) |

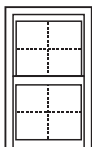
NOTES

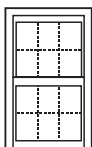


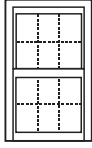
STANDARD NEW CONSTRUCTION (w)

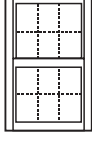
Double Hung

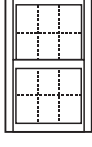
| Default Grid Pattern | Rough Opening | Code |
|----------------------|---------------|------|
|----------------------|---------------|------|

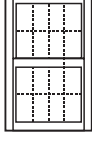
| | | |
|---|-------------------|--------|
|  | 1' 10" (w) | |
| | 3' 1-1/2" (h) | W18210 |
| | 3' 5-1/2" (h) | W1832 |
| | 4' 1-1/2" (h) | W18310 |
| | 4' 5-1/2" (h) | W1842 |
| | 4' 9-1/2" (h) | W1846 |
| | 5' 1-1/2" (h) | W18410 |
| | 5' 5-1/2" (h) | W1852 |
| 5' 9-1/2" (h) | W1856 | |

| | | |
|---|------------------|--------|
|  | 2' 2" (w) | |
| | 3' 1-1/2" (h) | W20210 |
| | 3' 5-1/2" (h) | W2032 |
| | 4' 1-1/2" (h) | W20310 |
| | 4' 5-1/2" (h) | W2042 |
| | 4' 9-1/2" (h) | W2046 |
| | 5' 1-1/2" (h) | W20410 |
| | 5' 5-1/2" (h) | W2052 |
| 5' 9-1/2" (h) | W2056 | |

| | | |
|--|------------------|--------|
|  | 2' 6" (w) | |
| | 3' 1-1/2" (h) | W24210 |
| | 3' 5-1/2" (h) | W2432 |
| | 4' 1-1/2" (h) | W24310 |
| | 4' 5-1/2" (h) | W2442 |
| | 4' 9-1/2" (h) | W2446 |
| | 5' 1-1/2" (h) | W24410 |
| | 5' 5-1/2" (h) | W2452 |
| 5' 9-1/2" (h) | W2456 | |

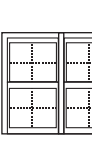
| | | |
|---|-------------------|--------|
|  | 2' 10" (w) | |
| | 3' 1-1/2" (h) | W28210 |
| | 3' 5-1/2" (h) | W2832 |
| | 4' 1-1/2" (h) | W28310 |
| | 4' 5-1/2" (h) | W2842 |
| | 4' 9-1/2" (h) | W2846 |
| | 5' 1-1/2" (h) | W28410 |
| | 5' 5-1/2" (h) | W2852 |
| 5' 9-1/2" (h) | W2856 | |

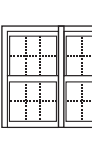
| | | |
|---|-----------------------|--------|
|  | 2' 11-1/2" (w) | |
| | 3' 1-1/2" (h) | W29210 |
| | 3' 5-1/2" (h) | W2932 |
| | 4' 1-1/2" (h) | W29310 |
| | 4' 5-1/2" (h) | W2942 |
| | 4' 9-1/2" (h) | W2946 |
| | 5' 1-1/2" (h) | W29410 |
| | 5' 5-1/2" (h) | W2952 |
| 5' 9-1/2" (h) | W2956 | |

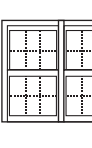
| | | |
|---|------------------|--------|
|  | 3' 2" (w) | |
| | 3' 1-1/2" (h) | W30210 |
| | 3' 5-1/2" (h) | W3032 |
| | 4' 1-1/2" (h) | W30310 |
| | 4' 5-1/2" (h) | W3042 |
| | 4' 9-1/2" (h) | W3046 |
| | 5' 1-1/2" (h) | W30410 |
| | 5' 5-1/2" (h) | W3052 |
| 5' 9-1/2" (h) | W3056 | |

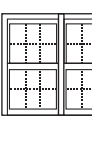
2-Wide Double Hung w/Common Jamb

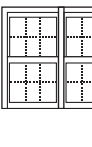
| Default Grid Pattern | Rough Opening | Code |
|----------------------|---------------|------|
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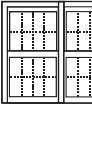
| | | |
|---|----------------------|----------|
|  | 3' 5-3/4" (w) | |
| | 3' 1-1/2" (h) | W18210-2 |
| | 3' 5-1/2" (h) | W1832-2 |
| | 4' 1-1/2" (h) | W18310-2 |
| | 4' 5-1/2" (h) | W1842-2 |
| | 4' 9-1/2" (h) | W1846-2 |
| | 5' 1-1/2" (h) | W18410-2 |
| | 5' 5-1/2" (h) | W1852-2 |
| 5' 9-1/2" (h) | W1856-2 | |

| | | |
|---|----------------------|----------|
|  | 4' 2-1/4" (w) | |
| | 3' 1-1/2" (h) | W20210-2 |
| | 3' 5-1/2" (h) | W2032-2 |
| | 4' 1-1/2" (h) | W20310-2 |
| | 4' 5-1/2" (h) | W2042-2 |
| | 4' 9-1/2" (h) | W2046-2 |
| | 5' 1-1/2" (h) | W20410-2 |
| | 5' 5-1/2" (h) | W2052-2 |
| 5' 9-1/2" (h) | W2056-2 | |

| | | |
|--|-----------------------|----------|
|  | 4' 10-1/4" (w) | |
| | 3' 1-1/2" (h) | W24210-2 |
| | 3' 5-1/2" (h) | W2432-2 |
| | 4' 1-1/2" (h) | W24310-2 |
| | 4' 5-1/2" (h) | W2442-2 |
| | 4' 9-1/2" (h) | W2446-2 |
| | 5' 1-1/2" (h) | W24410-2 |
| | 5' 5-1/2" (h) | W2452-2 |
| 5' 9-1/2" (h) | W2456-2 | |


| | | |
|---|----------------------|----------|
|  | 5' 6-1/4" (w) | |
| | 3' 1-1/2" (h) | W28210-2 |
| | 3' 5-1/2" (h) | W2832-2 |
| | 4' 1-1/2" (h) | W28310-2 |
| | 4' 5-1/2" (h) | W2842-2 |
| | 4' 9-1/2" (h) | W2846-2 |
| | 5' 1-1/2" (h) | W28410-2 |
| | 5' 5-1/2" (h) | W2852-2 |
| 5' 9-1/2" (h) | W2856-2 | |

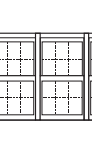
| | | |
|---|----------------------|----------|
|  | 5' 9-1/4" (w) | |
| | 3' 1-1/2" (h) | W29210-2 |
| | 3' 5-1/2" (h) | W2932-2 |
| | 4' 1-1/2" (h) | W29310-2 |
| | 4' 5-1/2" (h) | W2942-2 |
| | 4' 9-1/2" (h) | W2946-2 |
| | 5' 1-1/2" (h) | W29410-2 |
| | 5' 5-1/2" (h) | W2952-2 |
| 5' 9-1/2" (h) | W2956-2 | |

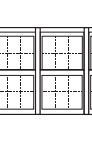
| | | |
|---|----------------------|----------|
|  | 6' 2-1/4" (w) | |
| | 3' 1-1/2" (h) | W30210-2 |
| | 3' 5-1/2" (h) | W3032-2 |
| | 4' 1-1/2" (h) | W30310-2 |
| | 4' 5-1/2" (h) | W3042-2 |
| | 4' 9-1/2" (h) | W3046-2 |
| | 5' 1-1/2" (h) | W30410-2 |
| | 5' 5-1/2" (h) | W3052-2 |
| 5' 9-1/2" (h) | W3056-2 | |


3-Wide Equal Double Hung w/Common Jamb


| Default Grid Pattern | Rough Opening | Code |
|----------------------|---------------|------|
|----------------------|---------------|------|


| | | |
|---|----------------------|----------|
|  | 5' 2-3/4" (w) | |
| | 3' 1-1/2" (h) | W18210-3 |
| | 3' 5-1/2" (h) | W1832-3 |
| | 4' 1-1/2" (h) | W18310-3 |
| | 4' 5-1/2" (h) | W1842-3 |
| | 4' 9-1/2" (h) | W1846-3 |
| | 5' 1-1/2" (h) | W18410-3 |
| | 5' 5-1/2" (h) | W1852-3 |
| 5' 9-1/2" (h) | W1856-3 | |

| | | |
|---|----------------------|----------|
|  | 6' 2-3/4" (w) | |
| | 3' 1-1/2" (h) | W20210-3 |
| | 3' 5-1/2" (h) | W2032-3 |
| | 4' 1-1/2" (h) | W20310-3 |
| | 4' 5-1/2" (h) | W2042-3 |
| | 4' 9-1/2" (h) | W2046-3 |
| | 5' 1-1/2" (h) | W20410-3 |
| | 5' 5-1/2" (h) | W2052-3 |
| 5' 9-1/2" (h) | W2056-3 | |

| | | |
|--|----------------------|----------|
|  | 7' 2-3/4" (w) | |
| | 3' 1-1/2" (h) | W24210-3 |
| | 3' 5-1/2" (h) | W2432-3 |
| | 4' 1-1/2" (h) | W24310-3 |
| | 4' 5-1/2" (h) | W2442-3 |
| | 4' 9-1/2" (h) | W2446-3 |
| | 5' 1-1/2" (h) | W24410-3 |
| | 5' 5-1/2" (h) | W2452-3 |
| 5' 9-1/2" (h) | W2456-3 | |

| | | |
|---|----------------------|----------|
|  | 8' 2-3/4" (w) | |
| | 3' 1-1/2" (h) | W28210-3 |
| | 3' 5-1/2" (h) | W2832-3 |
| | 4' 1-1/2" (h) | W28310-3 |
| | 4' 5-1/2" (h) | W2842-3 |
| | 4' 9-1/2" (h) | W2846-3 |
| | 5' 1-1/2" (h) | W28410-3 |
| | 5' 5-1/2" (h) | W2852-3 |
| 5' 9-1/2" (h) | W2856-3 | |

| | | |
|---|----------------------|----------|
|  | 8' 7-1/4" (w) | |
| | 3' 1-1/2" (h) | W29210-3 |
| | 3' 5-1/2" (h) | W2932-3 |
| | 4' 1-1/2" (h) | W29310-3 |
| | 4' 5-1/2" (h) | W2942-3 |
| | 4' 9-1/2" (h) | W2946-3 |
| | 5' 1-1/2" (h) | W29410-3 |
| | 5' 5-1/2" (h) | W2952-3 |
| 5' 9-1/2" (h) | W2956-3 | |

| | | |
|---|----------------------|----------|
|  | 9' 2-3/4" (w) | |
| | 3' 1-1/2" (h) | W30210-3 |
| | 3' 5-1/2" (h) | W3032-3 |
| | 4' 1-1/2" (h) | W30310-3 |
| | 4' 5-1/2" (h) | W3042-3 |
| | 4' 9-1/2" (h) | W3046-3 |
| | 5' 1-1/2" (h) | W30410-3 |
| | 5' 5-1/2" (h) | W3052-3 |
| 5' 9-1/2" (h) | W3056-3 | |

RO to UNIT DIMENSIONS
 Minus 1/2" from width | Minus 1/2" from height

RO to UNIT DIMENSIONS
 Minus 3/4" from width | Minus 1/2" from height

This guide contains two call size types for double-hung windows, since different markets use different call sizes. (W) indicates the size matches wood manufactured sizes and (V) indicates the size matches vinyl manufactured sizes. You can mix sizes in an order.

3-Wide w/ Picture Window & Common Jamb

| Default Grid Pattern | Rough Opening | Code |
|----------------------|----------------------|--------------|
| | 7' 6-3/4" (w) | |
| | 4' 1" (h) | W18-40310-18 |
| | 4' 5" (h) | W18-4042-18 |
| | 4' 9" (h) | W18-4046-18 |
| | 5' 5" (h) | W18-4052-18 |
| 5' 9" (h) | W18-4056-18 | |
| | 8' 2-3/4" (w) | |
| | 4' 1" (h) | W20-40310-20 |
| | 4' 5" (h) | W20-4042-20 |
| | 4' 9" (h) | W20-4046-20 |
| | 5' 5" (h) | W20-4052-20 |
| 5' 9" (h) | W20-4056-20 | |
| | 8' 6-3/4" (w) | |
| | 4' 1" (h) | W18-50310-18 |
| | 4' 5" (h) | W18-5042-18 |
| | 4' 9" (h) | W18-5046-18 |
| | 5' 5" (h) | W18-5052-18 |
| 5' 9" (h) | W18-5056-18 | |
| | 9' 2-3/4" (w) | |
| | 4' 1" (h) | W20-50310-20 |
| | 4' 5" (h) | W20-5042-20 |
| | 4' 9" (h) | W20-5046-20 |
| | 5' 5" (h) | W20-5052-20 |
| 5' 9" (h) | W20-5056-20 | |

| RO to UNIT DIMENSIONS | |
|-----------------------|------------------------|
| Minus 3/4" from width | Minus 1/2" from height |

Casement

| Default Grid Pattern | Rough Opening | Code |
|----------------------|-----------------------|--------|
| | 1' 9-1/2" (w) | |
| | 3' 0" (h) | 193 |
| | 3' 6" (h) | 1936 |
| | 4' 0" (h) | 194 |
| | 4' 6" (h) | 1946 |
| | 5' 0" (h) | 195 |
| 6' 0" (h) | 196 | |
| | 2' 0-1/2" (w) | |
| | 3' 0" (h) | 203 |
| | 3' 6" (h) | 2036 |
| | 4' 0" (h) | 204 |
| | 4' 6" (h) | 2046 |
| | 5' 0" (h) | 205 |
| 6' 0" (h) | 206 | |
| | 2' 5" (w) | |
| | 3' 0" (h) | 243 |
| | 3' 6" (h) | 2436 |
| | 4' 0" (h) | 244 |
| | 4' 6" (h) | 2446 |
| | 5' 0" (h) | 245 |
| 6' 0" (h) | 246 | |
| | 2' 8" (w) | |
| | 3' 0" (h) | 283 |
| | 3' 6" (h) | 2836 |
| | 4' 0" (h) | 284 |
| | 4' 6" (h) | 2846 |
| | 5' 0" (h) | 285 |
| 6' 0" (h) | 286 | |
| | 2' 9-3/4" (w) | |
| | 3' 0" (h) | 303-2 |
| | 3' 6" (h) | 3036-2 |
| | 4' 0" (h) | 304-2 |
| | 4' 6" (h) | 3046-2 |
| | 5' 0" (h) | 305-2 |
| 6' 0" (h) | 306-2 | |
| | 3' 5-3/4" (w) | |
| | 3' 0" (h) | 363-2 |
| | 3' 6" (h) | 3636-2 |
| | 4' 0" (h) | 364-2 |
| | 4' 6" (h) | 3646-2 |
| | 5' 0" (h) | 365-2 |
| 6' 0" (h) | 366-2 | |
| | 3' 11-3/4" (w) | |
| | 3' 0" (h) | 403-2 |
| | 3' 6" (h) | 4036-2 |
| | 4' 0" (h) | 404-2 |
| | 4' 6" (h) | 4046-2 |
| | 5' 0" (h) | 405-2 |
| 6' 0" (h) | 406-2 | |
| | 4' 8-3/4" (w) | |
| | 3' 0" (h) | 483-2 |
| | 3' 6" (h) | 4836-2 |
| | 4' 0" (h) | 484-2 |
| | 4' 6" (h) | 4846-2 |
| | 5' 0" (h) | 485-2 |
| 6' 0" (h) | 486-2 | |
| | 5' 11-1/4" (w) | |
| | 3' 0" (h) | 603-3 |
| | 3' 6" (h) | 6036-3 |
| | 4' 0" (h) | 604-3 |
| | 4' 6" (h) | 6046-3 |
| | 5' 0" (h) | 605-3 |
| 6' 0" (h) | 606-3 | |

| RO to UNIT DIMENSIONS |
|------------------------------|
| Minus 1/2" from width* |
| Minus 1/2" from height |
| *Minus 3/4" from width for 3 |

Sizes shaded in grey have a 5.70 sq. ft. clear opening or better. Check with your local building department for egress requirements.

STANDARD NEW CONSTRUCTION (v)

Double Hung

| Default Grid Pattern | Rough Opening | Code |
|----------------------|------------------|-------|
| | 2' 0" (w) | |
| | 3' 0" (h) | 2030V |
| | 3' 6" (h) | 2036V |
| | 4' 0" (h) | 2040V |
| | 4' 6" (h) | 2046V |
| | 5' 0" (h) | 2050V |
| | 5' 2" (h) | 2052V |
| | 5' 6" (h) | 2056V |
| 6' 0" (h) | 2060V | |
| | 2' 4" (w) | |
| | 3' 0" (h) | 2430V |
| | 3' 6" (h) | 2436V |
| | 4' 0" (h) | 2440V |
| | 4' 6" (h) | 2446V |
| | 5' 0" (h) | 2450V |
| | 5' 2" (h) | 2452V |
| | 5' 6" (h) | 2456V |
| 6' 0" (h) | 2460V | |
| | 2' 6" (w) | |
| | 3' 0" (h) | 2630V |
| | 3' 6" (h) | 2636V |
| | 4' 0" (h) | 2640V |
| | 4' 6" (h) | 2646V |
| | 5' 0" (h) | 2650V |
| | 5' 2" (h) | 2652V |
| | 5' 4" (h) | 2654V |
| 5' 6" (h) | 2656V | |
| 6' 0" (h) | 2660V | |
| | 2' 8" (w) | |
| | 3' 0" (h) | 2830V |
| | 3' 2" (h) | 2832V |
| | 3' 6" (h) | 2836V |
| | 4' 0" (h) | 2840V |
| | 4' 6" (h) | 2846V |
| | 5' 0" (h) | 2850V |
| | 5' 2" (h) | 2852V |
| 5' 4" (h) | 2854V | |
| 5' 6" (h) | 2856V | |
| 6' 0" (h) | 2860V | |
| | 3' 0" (w) | |
| | 3' 0" (h) | 3030V |
| | 3' 2" (h) | 3032V |
| | 3' 6" (h) | 3036V |
| | 4' 0" (h) | 3040V |
| | 4' 6" (h) | 3046V |
| | 5' 0" (h) | 3050V |
| | 5' 2" (h) | 3052V |
| 5' 4" (h) | 3054V | |
| 5' 6" (h) | 3056V | |
| 6' 0" (h) | 3060V | |
| | 3' 2" (w) | |
| | 3' 0" (h) | 3230V |
| | 3' 6" (h) | 3236V |
| | 4' 0" (h) | 3240V |
| | 4' 6" (h) | 3246V |
| | 5' 0" (h) | 3250V |
| | 5' 2" (h) | 3252V |
| | 5' 6" (h) | 3256V |
| 6' 0" (h) | 3260V | |

2-Wide Double Hung w/Common Jamb

| Default Grid Pattern | Rough Opening | Code |
|----------------------|-----------------------|---------|
| | 3' 10-1/4" (w) | |
| | 3' 0" (h) | 2030-2V |
| | 3' 6" (h) | 2036-2V |
| | 4' 0" (h) | 2040-2V |
| | 4' 6" (h) | 2046-2V |
| | 5' 0" (h) | 2050-2V |
| | 5' 2" (h) | 2052-2V |
| | 5' 6" (h) | 2056-2V |
| 6' 0" (h) | 2060-2V | |
| | 4' 6-1/4" (w) | |
| | 3' 0" (h) | 2430-2V |
| | 3' 6" (h) | 2436-2V |
| | 4' 0" (h) | 2440-2V |
| | 4' 6" (h) | 2446-2V |
| | 5' 0" (h) | 2450-2V |
| | 5' 2" (h) | 2452-2V |
| | 5' 6" (h) | 2456-2V |
| 6' 0" (h) | 2460-2V | |
| | 4' 10-1/4" (w) | |
| | 3' 0" (h) | 2630-2V |
| | 3' 6" (h) | 2636-2V |
| | 4' 0" (h) | 2640-2V |
| | 4' 6" (h) | 2646-2V |
| | 5' 0" (h) | 2650-2V |
| | 5' 2" (h) | 2652-2V |
| | 5' 4" (h) | 2654-2V |
| 5' 6" (h) | 2656-2V | |
| 6' 0" (h) | 2660-2V | |
| | 5' 2-1/4" (w) | |
| | 3' 0" (h) | 2830-2V |
| | 3' 2" (h) | 2832-2V |
| | 3' 6" (h) | 2836-2V |
| | 4' 0" (h) | 2840-2V |
| | 4' 6" (h) | 2846-2V |
| | 5' 0" (h) | 2850-2V |
| | 5' 2" (h) | 2852-2V |
| 5' 4" (h) | 2854-2V | |
| 5' 6" (h) | 2856-2V | |
| 6' 0" (h) | 2860-2V | |
| | 5' 10-1/4" (w) | |
| | 3' 0" (h) | 3030-2V |
| | 3' 2" (h) | 3032-2V |
| | 3' 6" (h) | 3036-2V |
| | 4' 0" (h) | 3040-2V |
| | 4' 6" (h) | 3046-2V |
| | 5' 0" (h) | 3050-2V |
| | 5' 2" (h) | 3052-2V |
| 5' 4" (h) | 3054-2V | |
| 5' 6" (h) | 3056-2V | |
| 6' 0" (h) | 3060-2V | |
| | 6' 2-1/4" (w) | |
| | 3' 0" (h) | 3230-2V |
| | 3' 6" (h) | 3236-2V |
| | 4' 0" (h) | 3240-2V |
| | 4' 6" (h) | 3246-2V |
| | 5' 0" (h) | 3250-2V |
| | 5' 2" (h) | 3252-2V |
| | 5' 6" (h) | 3256-2V |
| 6' 0" (h) | 3260-2V | |

3-Wide Double Hung w/Common Jamb

| Default Grid Pattern | Rough Opening | Code |
|----------------------|----------------------|---------|
| | 5' 8-1/2" (w) | |
| | 3' 0" (h) | 2030-3V |
| | 3' 6" (h) | 2036-3V |
| | 4' 0" (h) | 2040-3V |
| | 4' 6" (h) | 2046-3V |
| | 5' 0" (h) | 2050-3V |
| | 5' 2" (h) | 2052-3V |
| | 5' 6" (h) | 2056-3V |
| 6' 0" (h) | 2060-3V | |
| | 6' 8-1/2" (w) | |
| | 3' 0" (h) | 2430-3V |
| | 3' 6" (h) | 2436-3V |
| | 4' 0" (h) | 2440-3V |
| | 4' 6" (h) | 2446-3V |
| | 5' 0" (h) | 2450-3V |
| | 5' 2" (h) | 2452-3V |
| | 5' 6" (h) | 2456-3V |
| 6' 0" (h) | 2460-3V | |
| | 7' 2-1/2" (w) | |
| | 3' 0" (h) | 2630-3V |
| | 3' 6" (h) | 2636-3V |
| | 4' 0" (h) | 2640-3V |
| | 4' 6" (h) | 2646-3V |
| | 5' 0" (h) | 2650-3V |
| | 5' 2" (h) | 2652-3V |
| | 5' 4" (h) | 2654-3V |
| 5' 6" (h) | 2656-3V | |
| 6' 0" (h) | 2660-3V | |
| | 7' 8-1/2" (w) | |
| | 3' 0" (h) | 2830-3V |
| | 3' 2" (h) | 2832-3V |
| | 3' 6" (h) | 2836-3V |
| | 4' 0" (h) | 2840-3V |
| | 4' 6" (h) | 2846-3V |
| | 5' 0" (h) | 2850-3V |
| | 5' 2" (h) | 2852-3V |
| 5' 4" (h) | 2854-3V | |
| 5' 6" (h) | 2856-3V | |
| 6' 0" (h) | 2860-3V | |
| | 8' 8-1/2" (w) | |
| | 3' 0" (h) | 3030-3V |
| | 3' 2" (h) | 3032-3V |
| | 3' 6" (h) | 3036-3V |
| | 4' 0" (h) | 3040-3V |
| | 4' 6" (h) | 3046-3V |
| | 5' 0" (h) | 3050-3V |
| | 5' 2" (h) | 3052-3V |
| 5' 4" (h) | 3054-3V | |
| 5' 6" (h) | 3056-3V | |
| 6' 0" (h) | 3060-3V | |
| | 9' 2-1/2" (w) | |
| | 3' 0" (h) | 3230-3V |
| | 3' 6" (h) | 3236-3V |
| | 4' 0" (h) | 3240-3V |
| | 4' 6" (h) | 3246-3V |
| | 5' 0" (h) | 3250-3V |
| | 5' 2" (h) | 3252-3V |
| | 5' 6" (h) | 3256-3V |
| 6' 0" (h) | 3260-3V | |

RO to UNIT DIMENSIONS

Minus 1/2" from width Minus 1/2" from height

This guide contains two call size types for double-hung windows, since different markets use different call sizes. **(W)** indicates the size matches wood manufactured sizes and **(V)** indicates the size matches vinyl manufactured sizes. You can mix sizes in an order. Sizes shaded in grey have a 5.70 sq. ft. clear opening or better. Check with your local building department for egress requirements.

3-Wide w/ Picture Window & Common Jamb

| Default Grid Pattern | Rough Opening | Code |
|----------------------|----------------------|-------------|
| | 7' 8-1/2" (w) | |
| | 3' 0" (h) | 20-4030-20V |
| | 4' 0" (h) | 20-4040-20V |
| | 5' 0" (h) | 20-4050-20V |
| | 5' 2" (h) | 20-4052-20V |
| | 8' 4-1/2" (w) | |
| | 3' 0" (h) | 24-4030-24V |
| | 4' 0" (h) | 24-4040-24V |
| | 5' 0" (h) | 24-4050-24V |
| | 5' 2" (h) | 24-4052-24V |
| | 8' 8-1/2" (w) | |
| | 3' 0" (h) | 20-5030-20V |
| | 4' 0" (h) | 20-5040-20V |
| | 5' 0" (h) | 20-5050-20V |
| | 5' 2" (h) | 20-5052-20V |
| | 9' 4-1/2" (w) | |
| | 3' 0" (h) | 24-5030-24V |
| | 4' 0" (h) | 24-5040-24V |
| | 5' 0" (h) | 24-5050-24V |
| | 5' 2" (h) | 24-5052-24V |

| RO to UNIT DIMENSIONS | |
|-----------------------|------------------------|
| Minus 1/2" from width | Minus 1/2" from height |

*Minus 3/4" from width for 3 wide

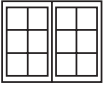


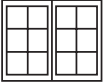


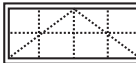

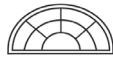


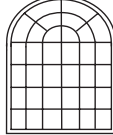

Casement

| Default Grid Pattern | Rough Opening | Code |
|----------------------|-----------------------|--------|
| | 1' 9-1/2" (w) | |
| | 3' 0" (h) | 193 |
| | 3' 6" (h) | 1936 |
| | 4' 0" (h) | 194 |
| | 4' 6" (h) | 1946 |
| | 5' 0" (h) | 195 |
| | 6' 0" (h) | 196 |
| | 2' 0-1/2" (w) | |
| | 3' 0" (h) | 203 |
| | 3' 6" (h) | 2036 |
| | 4' 0" (h) | 204 |
| | 4' 6" (h) | 2046 |
| | 5' 0" (h) | 205 |
| | 6' 0" (h) | 206 |
| | 2' 5" (w) | |
| | 3' 0" (h) | 243 |
| | 3' 6" (h) | 2436 |
| | 4' 0" (h) | 244 |
| | 4' 6" (h) | 2446 |
| | 5' 0" (h) | 245 |
| | 6' 0" (h) | 246 |
| | 2' 8" (w) | |
| | 3' 0" (h) | 283 |
| | 3' 6" (h) | 2836 |
| | 4' 0" (h) | 284 |
| | 4' 6" (h) | 2846 |
| | 5' 0" (h) | 285 |
| | 6' 0" (h) | 286 |
| | 2' 9-3/4" (w) | |
| | 3' 0" (h) | 303-2 |
| | 3' 6" (h) | 3036-2 |
| | 4' 0" (h) | 304-2 |
| | 4' 6" (h) | 3046-2 |
| | 5' 0" (h) | 305-2 |
| | 6' 0" (h) | 306-2 |
| | 3' 5-3/4" (w) | |
| | 3' 0" (h) | 363-2 |
| | 3' 6" (h) | 3636-2 |
| | 4' 0" (h) | 364-2 |
| | 4' 6" (h) | 3646-2 |
| | 5' 0" (h) | 365-2 |
| | 6' 0" (h) | 366-2 |
| | 3' 11-3/4" (w) | |
| | 3' 0" (h) | 403-2 |
| | 3' 6" (h) | 4036-2 |
| | 4' 0" (h) | 404-2 |
| | 4' 6" (h) | 4046-2 |
| | 5' 0" (h) | 405-2 |
| | 6' 0" (h) | 406-2 |
| | 4' 8-3/4" (w) | |
| | 3' 0" (h) | 483-2 |
| | 3' 6" (h) | 4836-2 |
| | 4' 0" (h) | 484-2 |
| | 4' 6" (h) | 4846-2 |
| | 5' 0" (h) | 485-2 |
| | 6' 0" (h) | 486-2 |
| | 5' 11-1/4" (w) | |
| | 3' 0" (h) | 603-3 |
| | 3' 6" (h) | 6036-3 |
| | 4' 0" (h) | 604-3 |
| | 4' 6" (h) | 6046-3 |
| | 5' 0" (h) | 605-3 |
| | 6' 0" (h) | 606-3 |

| RO to UNIT DIMENSIONS | |
|-----------------------|------------------------|
| Minus 1/2" from width | Minus 1/2" from height |

Sizes shaded in grey have a 5.70 sq. ft. clear opening or better. Check with your local building department for egress requirements.

VINYL STANDARD NEW CONSTRUCTION CALL SIZES

| Rolling Vinyl Window | | | Vinyl Awning | | | Vinyl Shapes | | |
|---|------------------------|--------|---|--------------------------------|-------|---|---------------------------------|----------|
| | Rough Opening | Code | | Rough Opening | Code | | Rough Opening | Code |
|  | 3' 6" (w) 3' 6" (h) | RW3636 |  | 2' 0-1/2" (w) 2' 0-1/2" (h) | AWN21 |  | 2' 10" (w) 1' 5-1/4" (h) | HRD28J |
|  | 4' 0" (w) 3' 6" (h) | RW4036 |  | 3' 0-1/2" (w) 2' 0-1/2" (h) | AWN31 |  | 2' 11-1/2" (w) 1' 5-3/4" (h) | HRD29J |
| | | |  | 4' 0-1/2" (w) 2' 0-1/2" (h) | AWN41 |  | 3' 2" (w) 1' 7-1/4" (h) | HRD30J |
| | | | | | |  | 5' 5-3/4" (w) 2' 8-7/8" (h) | HRD28-2J |
| | | | | | |  | 5' 9-1/4" (w) 2' 10-7/8" (h) | HRD29-2 |
| | | | | | |  | 3' 11-3/4" (w) 2' 0-1/8" (h) | HRC40 |
| | | | | | |  | 5' 4-3/8" (w) 6' 3-1/2" (h) | EHR6475J |
| | | | | | |  | 6' 0-1/2" (w) 1' 5-3/4" (h) | ET6J |

CLEAR OPENING SPECS MEASURING WINDOWS

MEASURING FOR REPLACEMENT WINDOWS

Verify the rough opening (RO) is sufficient size to fit the window. RO should measure 1/4" wider on width and 1/2" on the height (1/4" on both for Majesty) than the window it will receive.

Measuring Width:

Measure between the jambs at three locations: bottom, center, and top (Diagram A). Use the smallest dimension if the three vary.

Measuring Height:

Measure from highest point of the sloped sill to the highest point of header pocket (Diagram B).

Measuring Frame Depth:

Harvey vinyl and majesty windows are designed to fit a frame depth of 3-1/4". Compensation for other than 3-1/4" will have to be made on the job.

Adjustability for Vinyl Windows: The "U" channel vinyl head expander allows windows to be expanded up to 5/8" in height.

NOTE: The above measurements are rough opening sizes. You must deduct 1/4" off the width and 1/2" off the height, and round down to the nearest 1/4", to get your buck size (buck size is the size the window will be).

Width and height buck dimensions can only be ordered in 1/4", 1/2", 3/4", and full 1" sizes.

MEASURING FOR NEW CONSTRUCTION WINDOWS

Verify the rough opening (RO) to be plumb, level, square. RO should measure 1/2" larger than width and height of the window it will receive.

- Jamb depth of vinyl new construction windows is 2-1/4".

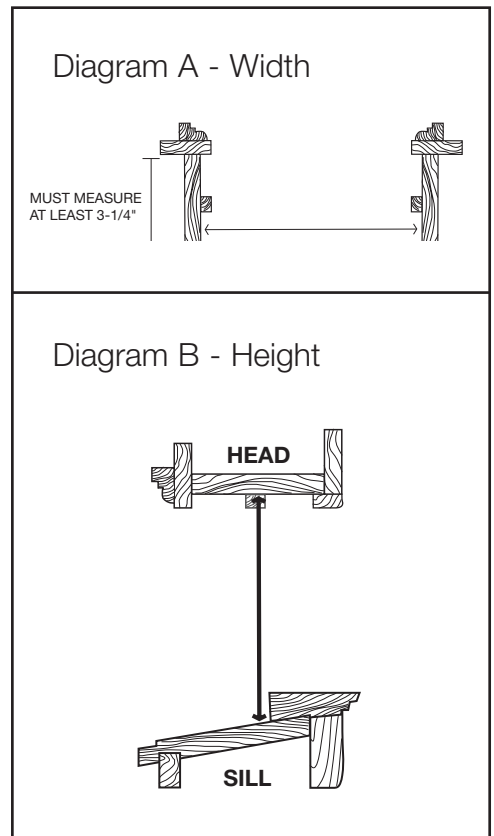
CLEAR OPENING MEASURING INSTRUCTIONS

In most states you must meet a clear opening requirement and a square foot requirement of 5.7 square feet total minimum clear opening. Consult your local building department for code requirements in your area.

| Unit | | Clear Opening Unit TTT | |
|-----------------------|-----------------------|------------------------|---------------|
| | | Width | Height |
| Tribute Double Hung | welded frame & sash | W - 5" | H/2 - 4-3/8" |
| Classic Double Hung | welded frame & sash | W - 5" | H/2 - 5-1/8" |
| Slimline DH/SH | welded frame & sash | W - 5-1/4" | H/2 - 4-7/16" |
| Vinyl Casement Window | Standard Hinge | W - 11-1/2" | H - 5-3/4" |
| Vinyl Casement Window | Egress Hinge | W - 7-1/4" | H - 5-3/4" |
| Vinyl Rolling Window | 2-lite | W/2 - 5-3/16" | H - 4-5/8" |
| Vinyl Rolling Window | 3-lite (qtr-half-qtr) | W/4 - 2-7/16" | H - 4-5/8" |
| Vinyl Rolling Window | 3-lite (equal lite) | W/3 - 5" | H - 4-5/8" |

| Clear opening w/sill riser in place | | Width | Height |
|-------------------------------------|---------------------|------------|----------------|
| Tribute Double Hung | welded frame & sash | W - 5" | H/2 - 4-15/16" |
| Classic Double Hung | welded frame & sash | W - 5" | H/2 - 5-11/16" |
| Slimline DH/SH | welded frame & sash | W - 5-1/4" | H/2 - 5" |

| | | | |
|---------------------|--|------------|--------------|
| Majesty Double Hung | | W - 3-7/8" | H/2 - 6-1/4" |
| Majesty Casement | | W - 8-1/2" | H - 4-3/4" |



Typical egress requirements include 20" width and 24" height clear opening minimum dimensions and 5.7 square feet of total minimum clear opening.

Example (using Classic double hung with welded frame & sash):

If Unit Buck Size = 36" x 64"

Clear opening Width:
 $36" - 5" = 31"$ (31")
 greater than 20"

Clear opening Height:
 $64"/2 = 32" - 5-1/4" = 26-3/4"$
 greater than 24"

Square footage of opening:
 $31" \times 26-3/4" = 829"/144" = 5.75$ sq.ft.
 greater than 5.70 sq ft.

CLEAR OPENING SPECS STANDARD NC WINDOWS (W)

| Slimline DH/SH | | | Classic DH/SH | | | Tribute DH | | |
|----------------|---------------|-------------------|---------------|-------------------|-------------------|-----------------|---------------|--|
| Code | Clear Opening | | SQ. FT | Clear Opening | | SQ. FT | Clear Opening | |
| | SQ. FT | (W x H) INCHES | | (W x H) INCHES | (W x H) INCHES | | | |
| W18210 | 1.60 | 16-1/4 x 14-1/16 | 1.50 | 16-1/2 x 13-1/4 | 1.60 | 16-1/2 x 14-1/8 | | |
| W1832 | 1.80 | 16-1/4 x 16-1/16 | 1.70 | 16-1/2 x 15-1/4 | 1.80 | 16-1/2 x 16-1/8 | | |
| W18310 | 2.30 | 16-1/4 x 20-1/16 | 2.20 | 16-1/2 x 19-1/4 | 2.30 | 16-1/2 x 20-1/8 | | |
| W1842 | 2.50 | 16-1/4 x 22-1/16 | 2.40 | 16-1/2 x 21-1/4 | 2.50 | 16-1/2 x 22-1/8 | | |
| W1846 | 2.70 | 16-1/4 x 24-1/16 | 2.70 | 16-1/2 x 23-1/4 | 2.80 | 16-1/2 x 24-1/8 | | |
| W18410 | 2.90 | 16-1/4 x 26-1/16 | 2.90 | 16-1/2 x 25-1/4 | 3.00 | 16-1/2 x 26-1/8 | | |
| W1852 | 3.20 | 16-1/4 x 28-1/16 | 3.10 | 16-1/2 x 27-1/4 | 3.20 | 16-1/2 x 28-1/8 | | |
| W1856 | 3.40 | 16-1/4 x 30-1/16 | 3.40 | 16-1/2 x 29-1/4 | 3.50 | 16-1/2 x 30-1/8 | | |
| W1862 | 3.80 | 16-1/4 x 34-1/16 | 3.80 | 16-1/2 x 33-1/4 | 3.90 | 16-1/2 x 34-1/8 | | |
| W20210 | 2.00 | 20-1/4 x 14-1/16 | 1.90 | 20-1/2 x 13-1/4 | 2.00 | 20-1/2 x 14-1/8 | | |
| W2032 | 2.30 | 20-1/4 x 16-1/16 | 2.20 | 20-1/2 x 15-1/4 | 2.30 | 20-1/2 x 16-1/8 | | |
| W20310 | 2.80 | 20-1/4 x 20-1/16 | 2.70 | 20-1/2 x 19-1/4 | 2.90 | 20-1/2 x 20-1/8 | | |
| W2042 | 3.10 | 20-1/4 x 22-1/16 | 3.00 | 20-1/2 x 21-1/4 | 3.10 | 20-1/2 x 22-1/8 | | |
| W2046 | 3.40 | 20-1/4 x 24-1/16 | 3.30 | 20-1/2 x 23-1/4 | 3.40 | 20-1/2 x 24-1/8 | | |
| W20410 | 3.70 | 20-1/4 x 26-1/16 | 3.60 | 20-1/2 x 25-1/4 | 3.70 | 20-1/2 x 26-1/8 | | |
| W2052 | 3.90 | 20-1/4 x 28-1/16 | 3.90 | 20-1/2 x 27-1/4 | 4.00 | 20-1/2 x 28-1/8 | | |
| W2056 | 4.20 | 20-1/4 x 30-1/16 | 4.20 | 20-1/2 x 29-1/4 | 4.30 | 20-1/2 x 30-1/8 | | |
| W2062 | 4.80 | 20-1/4 x 34-1/16 | 4.70 | 20-1/2 x 33-1/4 | 4.90 | 20-1/2 x 34-1/8 | | |
| W24210 | 2.40 | 24-1/4 x 14-1/16 | 2.30 | 24-1/2 x 13-1/4 | 2.40 | 24-1/2 x 14-1/8 | | |
| W2432 | 2.70 | 24-1/4 x 16-1/16 | 2.60 | 24-1/2 x 15-1/4 | 2.70 | 24-1/2 x 16-1/8 | | |
| W24310 | 3.40 | 24-1/4 x 20-1/16 | 3.30 | 24-1/2 x 19-1/4 | 3.40 | 24-1/2 x 20-1/8 | | |
| W2442 | 3.70 | 24-1/4 x 22-1/16 | 3.60 | 24-1/2 x 21-1/4 | 3.80 | 24-1/2 x 22-1/8 | | |
| W2446 | 4.10 | 24-1/4 x 24-1/16 | 4.00 | 24-1/2 x 23-1/4 | 4.10 | 24-1/2 x 24-1/8 | | |
| W24410 | 4.40 | 24-1/4 x 26-1/16 | 4.30 | 24-1/2 x 25-1/4 | 4.40 | 24-1/2 x 26-1/8 | | |
| W2452 | 4.70 | 24-1/4 x 28-1/16 | 4.60 | 24-1/2 x 27-1/4 | 4.80 | 24-1/2 x 28-1/8 | | |
| W2456 | 5.10 | 24-1/4 x 30-1/16 | 5.00 | 24-1/2 x 29-1/4 | 5.10 | 24-1/2 x 30-1/8 | | |
| W2462 | 5.70 | 24-1/4 x 34-1/16 | 5.70 | 24-1/2 x 33-1/4 | 5.80 | 24-1/2 x 34-1/8 | | |
| W28210 | 2.80 | 28-1/4 x 14-1/16 | 2.60 | 28-1/2 x 13-1/4 | 2.80 | 28-1/2 x 14-1/8 | | |
| W2832 | 3.20 | 28-1/4 x 16-1/16 | 3.00 | 28-1/2 x 15-1/4 | 3.20 | 28-1/2 x 16-1/8 | | |
| W28310 | 3.90 | 28-1/4 x 20-1/16 | 3.80 | 28-1/2 x 19-1/4 | 4.00 | 28-1/2 x 20-1/8 | | |
| W2842 | 4.30 | 28-1/4 x 22-1/16 | 4.20 | 28-1/2 x 21-1/4 | 4.40 | 28-1/2 x 22-1/8 | | |
| W2846 | 4.70 | 28-1/4 x 24-1/16 | 4.60 | 28-1/2 x 23-1/4 | 4.80 | 28-1/2 x 24-1/8 | | |
| W28410 | 5.10 | 28-1/4 x 26-1/16 | 5.00 | 28-1/2 x 25-1/4 | 5.20 | 28-1/2 x 26-1/8 | | |
| W2852 | 5.50 | 28-1/4 x 28-1/16 | 5.40 | 28-1/2 x 27-1/4 | 5.60 | 28-1/2 x 28-1/8 | | |
| W2856 | 5.90 | 28-1/4 x 30-1/16 | 5.80 | 28-1/2 x 29-1/4 | 6.00 | 28-1/2 x 30-1/8 | | |
| W29210 | 2.90 | 29-3/4 x 14-1/16 | 2.80 | 30 x 13-1/4 | 2.90 | 30 x 14-1/8 | | |
| W2932 | 3.30 | 29-3/4 x 16-1/16 | 3.20 | 30 x 15-1/4 | 3.40 | 30 x 16-1/8 | | |
| W29310 | 4.10 | 29-3/4 x 20-1/16 | 4.00 | 30 x 19-1/4 | 4.20 | 30 x 20-1/8 | | |
| W2942 | 4.60 | 29-3/4 x 22-1/16 | 4.40 | 30 x 21-1/4 | 4.60 | 30 x 22-1/8 | | |
| W2946 | 5.00 | 29-3/4 x 24-1/16 | 4.80 | 30 x 23-1/4 | 5.00 | 30 x 24-1/8 | | |
| W29410 | 5.40 | 29-3/4 x 26-1/16 | 5.30 | 30 x 25-1/4 | 5.40 | 30 x 26-1/8 | | |
| W2956 | 6.20 | 29-3/4 x 30-1/16 | 6.10 | 30 x 29-1/4 | 6.30 | 30 x 30-1/8 | | |
| W2962 | 7.00 | 29-3/4 x 34-1/16 | 6.90 | 30 x 33-1/4 | 7.10 | 30 x 34-1/8 | | |
| W30210 | 3.10 | 32-1/4 x 14-1/16 | 3.00 | 32-1/2 x 13-1/4 | 3.20 | 32-1/2 x 14-1/8 | | |
| W3032 | 3.60 | 32-1/4 x 16-1/16 | 3.40 | 32-1/2 x 15-1/4 | 3.60 | 32-1/2 x 16-1/8 | | |
| W30310 | 4.50 | 32-1/4 x 20-1/16 | 4.30 | 32-1/2 x 19-1/4 | 4.50 | 32-1/2 x 20-1/8 | | |
| W3042 | 4.90 | 32-1/4 x 22-1/16 | 4.80 | 32-1/2 x 21-1/4 | 5.00 | 32-1/2 x 22-1/8 | | |
| W3046 | 5.40 | 32-1/4 x 24-1/16 | 5.20 | 32-1/2 x 23-1/4 | 5.40 | 32-1/2 x 24-1/8 | | |
| W30410 | 5.80 | 32-1/4 x 26-1/16 | 5.70 | 32-1/2 x 25-1/4 | 5.90 | 32-1/2 x 26-1/8 | | |
| W3052 | 6.30 | 32-1/4 x 28-1/16 | 6.20 | 32-1/2 x 27-1/4 | 6.30 | 32-1/2 x 28-1/8 | | |
| W3056 | 6.70 | 32-1/4 x 30-1/16 | 6.60 | 32-1/2 x 29-1/4 | 6.80 | 32-1/2 x 30-1/8 | | |

NOTES: These specs do not apply to oriel windows. Use of sill rise adaptor will result in a 9/16" reduction in clear opening height. This guide contains two call size types for double-hung windows, since different markets use different call sizes. (W) indicates the size matches wood manufactured sizes and (V) indicates the size matches vinyl manufactured sizes. You can mix sizes in an order.

CLEAR OPENING SPECS STANDARD NC WINDOWS (V)

| Slimline DH/SH | | | Classic DH/SH | | Tribute DH | |
|----------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|
| Code | Clear Opening | | Clear Opening | | Clear Opening | |
| | SQ. FT | (W X H) INCHES | SQ. FT | (W X H) INCHES | SQ. FT | (W X H) INCHES |
| 2030V | 1.69 | 18-1/4 x 13-5/16 | 1.62 | 18-1/2 x 12-5/8 | 1.72 | 18-1/2 x 13-3/8 |
| 2036V | 2.07 | 18-1/4 x 16-5/16 | 2.01 | 18-1/2 x 15-5/8 | 2.10 | 18-1/2 x 16-3/8 |
| 2040V | 2.45 | 18-1/4 x 19-5/16 | 2.39 | 18-1/2 x 18-5/8 | 2.49 | 18-1/2 x 19-3/8 |
| 2046V | 2.83 | 18-1/4 x 22-5/16 | 2.78 | 18-1/2 x 21-5/8 | 2.83 | 18-1/2 x 22-3/8 |
| 2050V | 3.21 | 18-1/4 x 25-5/16 | 3.16 | 18-1/2 x 24-5/8 | 3.26 | 18-1/2 x 25-3/8 |
| 2052V | 3.33 | 18-1/4 x 26-5/16 | 3.29 | 18-1/2 x 25-5/8 | 3.39 | 18-1/2 x 26-3/8 |
| 2056V | 3.59 | 18-1/4 x 28-5/16 | 3.55 | 18-1/2 x 27-5/8 | 3.65 | 18-1/2 x 28-3/8 |
| 2060V | 3.97 | 18-1/4 x 31-5/16 | 3.93 | 18-1/2 x 30-5/8 | 4.03 | 18-1/2 x 31-3/8 |
| 2430V | 2.06 | 22-1/4 x 13-5/16 | 1.97 | 22-1/2 x 12-5/8 | 2.09 | 22-1/2 x 13-3/8 |
| 2436V | 2.52 | 22-1/4 x 16-5/16 | 2.44 | 22-1/2 x 15-5/8 | 2.56 | 22-1/2 x 16-3/8 |
| 2440V | 2.98 | 22-1/4 x 19-5/16 | 2.91 | 22-1/2 x 18-5/8 | 3.03 | 22-1/2 x 19-3/8 |
| 2446V | 3.45 | 22-1/4 x 22-5/16 | 3.38 | 22-1/2 x 22-5/8 | 3.50 | 22-1/2 x 22-3/8 |
| 2450V | 3.91 | 22-1/4 x 25-5/16 | 3.85 | 22-1/2 x 24-5/8 | 3.96 | 22-1/2 x 25-3/8 |
| 2452V | 4.07 | 22-1/4 x 26-5/16 | 4.0 | 22-1/2 x 25-5/8 | 4.12 | 22-1/2 x 26-3/8 |
| 2456V | 4.37 | 22-1/4 x 28-5/16 | 4.32 | 22-1/2 x 27-5/8 | 4.43 | 22-1/2 x 28-3/8 |
| 2460V | 4.84 | 22-1/4 x 31-5/16 | 4.79 | 22-1/2 x 30-5/8 | 4.90 | 22-1/2 x 31-3/8 |
| 2830V | 2.43 | 26-1/4 x 13-5/16 | 2.32 | 26-1/2 x 12-5/8 | 2.46 | 26-1/2 x 13-3/8 |
| 2836V | 2.97 | 26-1/4 x 16-5/16 | 2.88 | 26-1/2 x 15-5/8 | 3.01 | 26-1/2 x 16-3/8 |
| 2840V | 3.52 | 26-1/4 x 19-5/16 | 3.43 | 26-1/2 x 18-5/8 | 3.57 | 26-1/2 x 19-3/8 |
| 2846V | 4.07 | 26-1/4 x 22-5/16 | 3.98 | 26-1/2 x 22-5/8 | 4.12 | 26-1/2 x 22-3/8 |
| 2850V | 4.61 | 26-1/4 x 25-5/16 | 4.53 | 26-1/2 x 24-5/8 | 4.67 | 26-1/2 x 25-3/8 |
| 2852V | 4.80 | 26-1/4 x 26-5/16 | 4.72 | 26-1/2 x 25-5/8 | 4.85 | 26-1/2 x 26-3/8 |
| 2856V | 5.16 | 26-1/4 x 28-5/16 | 5.08 | 26-1/2 x 27-5/8 | 5.22 | 26-1/2 x 28-3/8 |
| 2860V | 5.71 | 26-1/4 x 31-5/16 | 5.64 | 26-1/2 x 30-5/8 | 5.77 | 26-1/2 x 31-3/8 |
| 3030V | 2.80 | 30-1/4 x 13-5/16 | 2.67 | 30-1/2 x 12-5/8 | 2.83 | 30-1/2 x 13-3/8 |
| 3036V | 3.43 | 30-1/4 x 16-5/16 | 3.31 | 30-1/2 x 15-5/8 | 3.47 | 30-1/2 x 16-3/8 |
| 3040V | 4.06 | 30-1/4 x 19-5/16 | 3.94 | 30-1/2 x 18-5/8 | 4.10 | 30-1/2 x 19-3/8 |
| 3046V | 4.69 | 30-1/4 x 22-5/16 | 4.58 | 30-1/2 x 22-5/8 | 4.74 | 30-1/2 x 22-3/8 |
| 3050V | 5.32 | 30-1/4 x 25-5/16 | 5.22 | 30-1/2 x 24-5/8 | 5.37 | 30-1/2 x 25-3/8 |
| 3052V | 5.53 | 30-1/4 x 26-5/16 | 5.43 | 30-1/2 x 25-5/8 | 5.59 | 30-1/2 x 26-3/8 |
| 3056V | 5.95 | 30-1/4 x 28-5/16 | 5.85 | 30-1/2 x 27-5/8 | 6.01 | 30-1/2 x 28-3/8 |
| 3060V | 6.58 | 30-1/4 x 31-5/16 | 6.49 | 30-1/2 x 30-5/8 | 6.65 | 30-1/2 x 31-3/8 |
| 3240V | 4.33 | 32-1/4 x 19-5/16 | 4.2 | 32-1/2 x 18-5/8 | 4.37 | 32-1/2 x 19-3/8 |
| 3246V | 5.00 | 32-1/4 x 22-5/16 | 4.88 | 32-1/2 x 22-5/8 | 5.05 | 32-1/222-3/8 |
| 3250V | 5.67 | 32-1/4 x 25-5/16 | 5.56 | 32-1/2 x 24-5/8 | 5.73 | 32-1/2 x 25-3/8 |
| 3252V | 5.89 | 32-1/4 x 26-5/16 | 5.78 | 32-1/2 x 25-5/8 | 5.95 | 32-1/2 x 26-3/8 |

Sizes shaded in grey have a 5.70 sq. ft. clear opening or better. Check with your local building department for egress requirements.

THERMAL PERFORMANCE DATA

VINYL

| Product Line | Glazing Description | ENERGY STAR® 7.0 Zone Compliance | | | | | | | | | | | | ENERGY STAR® 6.0 Zone Compliance | | | | | | | | | |
|---|------------------------------------|----------------------------------|------|------|----------|----|----|------|---------------------|------|------|------------|----|----------------------------------|-----|-----|----|------------|-----|-----|----|----|---|
| | | Thermal Performance | | | NO GRIDS | | | | Thermal Performance | | | WITH GRIDS | | NO GRIDS | | | | WITH GRIDS | | | | | |
| | | U | SHGc | VT | | | | | U | SHGc | VT | | | | | | | | | | | | |
| Tribute Double Hung | ThermaLock 3X TG RS Low-E FOAM | 0.21 | 0.24 | 0.44 | N | NC | | | 0.22 | 0.21 | 0.39 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.46 | 0.57 | N26 | | | | 0.26 | 0.42 | 0.50 | N26 | | | | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.25 | 0.29 | 0.52 | | NC | | | 0.25 | 0.26 | 0.46 | | NC | | | N | NC | | | N | NC | | |
| | SunShield PLUS SC DG RS Low-E | 0.25 | 0.20 | 0.46 | | NC | SC | S | 0.25 | 0.18 | 0.41 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.29 | 0.20 | 0.47 | | | | S | 0.29 | 0.18 | 0.42 | | | | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.30 | 0.53 | - | - | - | - | 0.29 | 0.27 | 0.47 | - | - | - | - | NC | | | | NC | | | |
| SunGain DG HIGH SHGC | 0.30 | 0.48 | 0.58 | - | - | - | - | 0.30 | 0.43 | 0.51 | - | - | - | - | N30 | - | - | - | N30 | - | - | - | |
| Tribute Double Hung Reinforced Sashes | ThermaLock 3X TG RS Low-E FOAM | 0.24 | 0.24 | 0.44 | | NC | | | 0.24 | 0.21 | 0.39 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E HIGH SHGC | 0.27 | 0.46 | 0.57 | - | - | - | - | 0.27 | 0.42 | 0.50 | - | - | - | - | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.26 | 0.29 | 0.52 | - | - | - | - | 0.26 | 0.26 | 0.46 | - | - | - | - | N | NC | | | N | NC | | |
| | SunShield PLUS DG SC RS Low-E | 0.26 | 0.20 | 0.46 | | | SC | S | 0.26 | 0.18 | 0.41 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.30 | 0.20 | 0.47 | | | | S | 0.30 | 0.18 | 0.42 | | | | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.30 | 0.30 | 0.53 | - | - | - | - | 0.30 | 0.27 | 0.47 | - | - | - | - | NC | | | | NC | | | |
| SunGain DG HIGH SHGC | 0.31 | 0.48 | 0.58 | - | - | - | - | 0.31 | 0.43 | 0.51 | - | - | - | - | - | - | - | - | - | - | - | - | |
| Classic Double Hung | SunGain PLUS DG RS Low-E HIGH SHGC | 0.25 | 0.48 | 0.59 | N25 | | | | 0.25 | 0.43 | 0.53 | N25 | | | | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.24 | 0.30 | 0.54 | | NC | | | 0.24 | 0.27 | 0.48 | | NC | | | N | NC | | | N | NC | | |
| | SunShield PLUS DG SC RS Low-E | 0.24 | 0.21 | 0.48 | | NC | SC | S | 0.24 | 0.19 | 0.43 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.21 | 0.49 | | | SC | S | 0.28 | 0.19 | 0.44 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.27 | 0.29 | 0.49 | - | - | - | - | 0.27 | 0.26 | 0.44 | - | - | - | - | N | NC | | | N | NC | | |
| | ThermaGuard DG Low-E | 0.28 | 0.31 | 0.55 | - | - | - | - | 0.28 | 0.28 | 0.49 | - | - | - | - | NC | | | | NC | | | |
| SunGain DG HIGH SHGC | 0.29 | 0.50 | 0.60 | - | - | - | - | 0.29 | 0.45 | 0.54 | - | - | - | - | N29 | | | | N29 | | | | |
| Slimline Double Hung & Single Hung | SunGain PLUS DG RS Low-E | 0.25 | 0.49 | 0.60 | N25 | | | | 0.25 | 0.44 | 0.54 | N25 | | | | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.25 | 0.31 | 0.56 | | NC | | | 0.25 | 0.28 | 0.50 | | NC | | | N | NC | | | N | NC | | |
| | SunShield PLUS DG SC RS Low-E | 0.24 | 0.21 | 0.49 | | NC | SC | S | 0.25 | 0.31 | 0.56 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.21 | 0.50 | | | SC | S | 0.28 | 0.20 | 0.45 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.31 | 0.57 | - | - | - | - | 0.29 | 0.28 | 0.50 | - | - | - | - | NC | | | | NC | | | |
| | SunGain DG HIGH SHGC | 0.30 | 0.51 | 0.62 | - | - | - | - | 0.30 | 0.46 | 0.55 | - | - | - | - | N30 | | | | N30 | | | |
| Casement <small>(Fixed lite values may differ)</small> | ThermaLock 3X TG Low-E | 0.21 | 0.21 | 0.39 | N | NC | SC | S | 0.21 | 0.20 | 0.35 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E | 0.23 | 0.42 | 0.50 | N23 | | | | 0.23 | 0.38 | 0.45 | N23 | NC | | | N | | | | N | NC | | |
| | ThermaLock RS DG 2X Low-E | 0.23 | 0.26 | 0.46 | | NC | | | 0.23 | 0.24 | 0.42 | | NC | | | N | NC | | | N | NC | SC | S |
| | SunShield PLUS DG SC RS Low-E | 0.23 | 0.18 | 0.41 | | NC | SC | S | 0.23 | 0.16 | 0.37 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.26 | 0.18 | 0.42 | | | SC | S | 0.26 | 0.17 | 0.38 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.26 | 0.25 | 0.42 | - | - | - | - | 0.26 | 0.23 | 0.38 | - | - | - | - | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.26 | 0.27 | 0.47 | - | - | - | - | 0.26 | 0.24 | 0.43 | - | - | - | - | N | NC | | | N | NC | SC | S |
| | SunGain DG HIGH SHGC | 0.27 | 0.43 | 0.52 | - | - | - | - | 0.27 | 0.39 | 0.47 | - | - | - | - | N | | | | N | NC | | |
| Awning <small>(Fixed lite values may differ)</small> | ThermaLock 3X TG RS Low-E | 0.22 | 0.21 | 0.39 | N | NC | SC | S | 0.22 | 0.20 | 0.35 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E HIGH SHGC | 0.25 | 0.42 | 0.50 | N25 | | | | 0.24 | 0.38 | 0.45 | N24 | NC | | | N | | | | N | NC | | |
| | ThermaLock RS DG 2X Low-E | 0.24 | 0.26 | 0.46 | | NC | | | 0.24 | 0.24 | 0.42 | | NC | | | N | NC | | | N | NC | SC | S |
| | SunShield PLUS DG SC RS Low-E | 0.24 | 0.18 | 0.41 | | NC | SC | S | 0.24 | 0.16 | 0.37 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.27 | 0.18 | 0.42 | | | SC | S | 0.27 | 0.17 | 0.38 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.27 | 0.25 | 0.42 | - | - | - | - | 0.27 | 0.23 | 0.38 | - | - | - | - | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.27 | 0.27 | 0.47 | - | - | - | - | 0.27 | 0.24 | 0.43 | - | - | - | - | N | NC | | | N | NC | SC | S |
| | SunGain DG HIGH SHGC | 0.28 | 0.43 | 0.52 | - | - | - | - | 0.28 | 0.39 | 0.47 | - | - | - | - | N28 | | | | N28 | NC | | |
| Rolling Window | ThermaLock 3X TG RS Low-E | 0.22 | 0.25 | 0.46 | N | NC | | | 0.23 | 0.22 | 0.41 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.48 | 0.59 | N26 | | | | 0.26 | 0.43 | 0.53 | N26 | | | | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.25 | 0.30 | 0.55 | | NC | | | 0.25 | 0.27 | 0.49 | | NC | | | N | NC | | | N | NC | | |
| | SunShield PLUS DG SC RS Low-E | 0.25 | 0.21 | 0.48 | | NC | SC | S | 0.25 | 0.19 | 0.43 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.29 | 0.21 | 0.49 | | | | S | 0.29 | 0.19 | 0.44 | | | | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.31 | 0.55 | - | - | - | - | 0.29 | 0.28 | 0.49 | - | - | - | - | NC | | | | NC | | | |
| SunGain DG HIGH SHGC | 0.30 | 0.50 | 0.61 | - | - | - | - | 0.30 | 0.45 | 0.54 | - | - | - | - | N30 | | | | N30 | | | | |
| Picture Window | ThermaLock 3X TG RS Low-E | 0.19 | 0.26 | 0.49 | N | NC | | | 0.20 | 0.24 | 0.43 | N | NC | | | N | NC | | | N | NC | SC | S |
| | SunGain PLUS DG RS Low-E HIGH SHGC | 0.23 | 0.51 | 0.63 | N23 | | | | 0.23 | 0.46 | 0.56 | N23 | | | | N | | | | N | | | |
| | ThermaLock RS DG 2X Low-E | 0.22 | 0.32 | 0.58 | N23 | | | | 0.22 | 0.29 | 0.51 | N23 | | | | N | NC | | | N | NC | | |
| | SunShield PLUS DG SC RS Low-E | 0.22 | 0.22 | 0.51 | N | NC | SC | S | 0.22 | 0.22 | 0.46 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaLock DG 2X RS Low-E | 0.25 | 0.30 | 0.52 | | NC | | | 0.25 | 0.28 | 0.47 | | NC | | | N | NC | | | N | NC | | |
| | SunShield DG SC | 0.25 | 0.22 | 0.52 | | NC | SC | S | 0.25 | 0.20 | 0.46 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.26 | 0.32 | 0.59 | - | - | - | - | 0.26 | 0.29 | 0.52 | - | - | - | - | N | NC | | | N | NC | | |
| SunGain DG HIGH SHGC | 0.27 | 0.53 | 0.64 | - | - | - | - | 0.27 | 0.47 | 0.57 | - | - | - | - | N | | | | N | | | | |

Chart represents thermal values for replacement/Integral J frame windows with Argon gas fill.

THERMAL PERFORMANCE DATA

VINYL (CONT.)

| Product Line | Glazing Description | ENERGY STAR® 7.0 Zone Compliance | | | | | | | | | | | | ENERGY STAR® 6.0 Zone Compliance | | | | | | | | | | |
|-----------------|----------------------------|----------------------------------|------|------|----------|----|----|---------------------|------|------|------------|-----|----|----------------------------------|----|-----|----|------------|----|-----|----|----|----|---|
| | | Thermal Performance | | | NO GRIDS | | | Thermal Performance | | | WITH GRIDS | | | NO GRIDS | | | | WITH GRIDS | | | | | | |
| | | U | SHGc | VT | | | | U | SHGc | VT | | | | | | | | | | | | | | |
| Hopper Window | ThermaLock 3X TG RS Low-E | 0.23 | 0.23 | 0.42 | | NC | SC | S | 0.23 | 0.21 | 0.38 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S | |
| | SunGain PLUS RS Low-E SHGC | 0.26 | 0.45 | 0.54 | N26 | | | | 0.26 | 0.41 | 0.49 | N26 | | | | N | | | | N | | | | |
| | ThermaLock RS DG Low-E | 0.27 | 0.28 | 0.50 | - | - | - | - | 0.27 | 0.26 | 0.45 | - | - | - | - | N | NC | | | N | NC | | | |
| | SunShield PLUS SC RS Low-E | 0.25 | 0.19 | 0.44 | | NC | SC | S | 0.25 | 0.18 | 0.40 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S | |
| | SunShield SC | 0.29 | 0.19 | 0.45 | | | | | 0.29 | 0.18 | 0.41 | | | | | N | NC | SC | S | N | NC | SC | S | |
| | ThermaGuard DG Low-E | 0.30 | 0.28 | 0.50 | - | - | - | - | 0.30 | 0.26 | 0.45 | - | - | - | - | N | NC | | | N | NC | | | |
| | SunGain SHGC | 0.30 | 0.46 | 0.55 | - | - | - | - | 0.30 | 0.42 | 0.50 | - | - | - | - | N30 | | | | N30 | | | | |
| Designer Shapes | SunGain PLUS RS Low-E SHGC | 0.23 | 0.55 | 0.68 | N23 | | | | 0.23 | 0.49 | 0.61 | N23 | | | | N | | | | N | | | | |
| | ThermaLock RS DG 2X Low-E | 0.23 | 0.32 | 0.60 | | NC | | | 0.23 | 0.29 | 0.54 | | NC | | | N | NC | | | N | NC | | | |
| | SunShield PLUS SC RS Low-E | 0.22 | 0.23 | 0.55 | N | NC | SC | S | 0.22 | 0.21 | 0.50 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S | |
| | SunShield | 0.27 | 0.24 | 0.57 | | | | | 0.27 | 0.22 | 0.51 | | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.27 | 0.30 | 0.52 | - | - | - | - | 0.27 | 0.27 | 0.47 | - | - | - | - | N | NC | | | N | NC | | | |
| | ThermaGuard DG Low-E | 0.27 | 0.32 | 0.61 | - | - | - | - | 0.27 | 0.29 | 0.55 | - | - | - | - | N | NC | | | N | NC | | | |
| | SunGain SHGC | 0.29 | 0.56 | 0.69 | - | - | - | - | 0.29 | 0.51 | 0.62 | - | - | - | - | N29 | | | | N29 | | | | |
| Vinyl DeadLite | ThermaLock 3X TG RS Low-E | 0.21 | 0.29 | 0.53 | N | NC | | | 0.22 | 0.26 | 0.48 | N | NC | | N | NC | | | N | NC | | | | |
| | SunGain PLUS RS Low-E SHGC | 0.25 | 0.56 | 0.68 | N25 | | | | 0.25 | 0.50 | 0.61 | N25 | | | | N | | | | N | | | | |
| | ThermaLock RS DG Low-E | 0.24 | 0.35 | 0.63 | N24 | NC | | | 0.24 | 0.32 | 0.56 | | NC | SC | S | N | NC | | | N | NC | | | |
| | SunShield PLUS SC RS Low-E | 0.24 | 0.24 | 0.56 | | NC | | | 0.24 | 0.22 | 0.50 | | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.24 | 0.57 | - | - | - | - | 0.28 | 0.22 | 0.51 | - | - | - | - | N | NC | SC | S | N | NC | SC | S | |
| | ThermaGuard DG Low-E | 0.29 | 0.35 | 0.64 | - | - | - | - | 0.29 | 0.32 | 0.57 | - | - | - | - | N | NC | | | N | NC | | | |
| | SunGain DG HIGH SHGC | 0.30 | 0.58 | 0.70 | - | - | - | - | 0.30 | 0.52 | 0.63 | - | - | - | - | N30 | | | | N30 | | | | |

High Solar Heat Gain (SHGc) glazing is designed for use in the Northern ENERGY STAR® climate zone only. Windows glazed with High SHGc glass are ideal for passive solar applications where a reduction in thermal performance (U-Factor) is allowed for a gain in solar heat performance. High SHGc glazing can qualify for the Northern ENERGY STAR® climate zone by meeting either of the three Equivalent Energy Performance (EEP) criteria shown below.

PATIO DOOR

| Product Line | Glazing Description | ENERGY STAR® 7.0 Zone Compliance | | | | | | | | | | | | ENERGY STAR® 6.0 Zone Compliance | | | | | | | | | |
|------------------|-------------------------------------|----------------------------------|------|------|----------|----|----|---------------------|------|------|------------|---|----|----------------------------------|---|---|----|------------|---|---|----|----|---|
| | | Thermal Performance | | | NO GRIDS | | | Thermal Performance | | | WITH GRIDS | | | NO GRIDS | | | | WITH GRIDS | | | | | |
| | | U | SHGc | VT | | | | U | SHGc | VT | | | | | | | | | | | | | |
| Vinyl Patio Door | ThermaLock RS DG Low-E | 0.25 | 0.26 | 0.49 | N | NC | | | 0.25 | 0.23 | 0.43 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield PLUS SC RS Low-E | 0.25 | 0.20 | 0.46 | N | NC | SC | S | 0.25 | 0.17 | 0.40 | N | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.28 | 0.25 | 0.43 | | | | | 0.28 | 0.22 | 0.37 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.27 | 0.51 | - | - | - | - | 0.29 | 0.24 | 0.44 | - | - | - | - | N | NC | | | N | NC | | |
| | Blinds Between Glass ** DG 2X Low-E | 0.29 | 0.25 | 0.46 | - | - | - | - | - | - | - | - | - | - | - | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.29 | 0.20 | 0.47 | - | - | - | - | 0.29 | 0.18 | 0.41 | - | - | - | - | N | NC | SC | S | N | NC | SC | S |
| Non-Impact DP50 | ThermaGuard DG Low-E | 0.30 | 0.29 | 0.50 | - | - | - | - | 0.30 | 0.26 | 0.44 | - | - | - | - | N | NC | | | N | NC | | |
| | SunShield DG SC | 0.29 | 0.20 | 0.45 | - | - | - | - | 0.29 | 0.17 | 0.39 | - | - | - | - | N | NC | SC | S | N | NC | SC | S |
| PD180 Patio Door | ThermaGuard DG Low-E | 0.28 | 0.31 | 0.56 | - | - | - | - | 0.28 | 0.27 | 0.49 | - | - | - | - | N | NC | | | N | NC | | |

Legend

| | |
|-----------|-------------------------------|
| RS | Roomside |
| DG | Dual-Glazed Glass - 2 panes |
| TG | Triple-Glazed Glass - 3 panes |
| SC | Solar Control |
| HIGH SHGC | High Solar Heat Gain Package |
| 2X | 2 Low-E Coatings |



Ratings depend on size tested. Our products are tested for performance regularly. Test results subject to change.

THERMAL PERFORMANCE DATA

VINYL

| Product Line | Glazing Description | ENERGY STAR® 7.0 Zone Compliance | | | | | | | | | | | | ENERGY STAR® 6.0 Zone Compliance | | | | | | | | | |
|------------------------------------|-------------------------------------|----------------------------------|------|------|----------|----|----|------|---------------------|------|------|------------|----|----------------------------------|---|------------|----|----|---|----|----|----|---|
| | | Thermal Performance | | | NO GRIDS | | | | Thermal Performance | | | WITH GRIDS | | NO GRIDS | | WITH GRIDS | | | | | | | |
| | | U | SHGc | VT | | | | | U | SHGc | VT | | | | | | | | | | | | |
| Classic Double Hung STC34 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.45 | 0.57 | N26 | | | | 0.26 | 0.40 | 0.51 | N26 | | | | N | | | N | NC | | | |
| | ThermaLock RS DG Low-E | 0.25 | 0.27 | 0.51 | | NC | | | 0.25 | 0.24 | 0.45 | | NC | | | N | NC | | N | NC | SC | S | |
| | SunShield DG SC | 0.28 | 0.21 | 0.48 | | | SC | S | 0.28 | 0.19 | 0.43 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaLock DG 2X Low-E | 0.28 | 0.25 | 0.44 | | | | | 0.28 | 0.23 | 0.39 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.34 | 0.52 | - | - | - | - | 0.29 | 0.31 | 0.46 | - | - | - | - | | NC | | | | NC | | |
| Slimline Double Hung STC34 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.46 | 0.59 | N26 | | | | 0.26 | 0.41 | 0.52 | N26 | | | | N | | | N | | | | |
| | ThermaLock RS DG Low-E | 0.26 | 0.27 | 0.52 | - | - | - | - | 0.26 | 0.25 | 0.46 | - | - | - | - | N | NC | | N | NC | SC | S | |
| | SunShield PLUS DG SC RS Low-E | 0.26 | 0.21 | 0.48 | | | SC | S | 0.26 | 0.19 | 0.43 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.29 | 0.21 | 0.49 | | | | S | 0.29 | 0.19 | 0.44 | | | | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.30 | 0.35 | 0.53 | - | - | - | - | 0.30 | 0.31 | 0.48 | - | - | - | - | | NC | | | | NC | | |
| Casement STC34 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.25 | 0.38 | 0.49 | | NC | | | 0.25 | 0.35 | 0.44 | | NC | | | N | NC | | N | NC | | | |
| | ThermaLock RS DG Low-E | 0.25 | 0.23 | 0.43 | | NC | SC | S | 0.25 | 0.21 | 0.39 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.18 | 0.41 | | | SC | S | 0.28 | 0.17 | 0.37 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.28 | 0.30 | 0.44 | - | - | - | - | 0.28 | 0.27 | 0.40 | - | - | - | - | | NC | | | | NC | | |
| Awning STC34 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.38 | 0.49 | | | | | 0.26 | 0.35 | 0.44 | | | | | N | NC | | N | NC | | | |
| | ThermaLock RS DG Low-E | 0.25 | 0.23 | 0.43 | | NC | SC | S | 0.25 | 0.21 | 0.39 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.18 | 0.41 | | | SC | S | 0.28 | 0.17 | 0.37 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.28 | 0.30 | 0.44 | - | - | - | - | 0.28 | 0.27 | 0.40 | - | - | - | - | | NC | | | | NC | | |
| Fixed Casement/ Awning STC34 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.24 | 0.45 | 0.58 | N24 | | | | 0.24 | 0.41 | 0.52 | N24 | | | | N | | | N | | | | |
| | ThermaLock RS DG Low-E | 0.23 | 0.27 | 0.51 | | NC | | | 0.23 | 0.25 | 0.46 | | NC | | | N | NC | | N | NC | SC | S | |
| | SunShield DG SC | 0.26 | 0.21 | 0.49 | | | SC | S | 0.26 | 0.19 | 0.44 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.27 | 0.35 | 0.53 | - | - | - | - | 0.27 | 0.31 | 0.47 | - | - | - | - | | NC | | | | NC | | |
| Picture Window STC32 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.22 | 0.47 | 0.61 | N | | | | 0.22 | 0.42 | 0.54 | N | | | | N | | | N | | | | |
| | ThermaLock RS DG Low-E | 0.22 | 0.28 | 0.54 | N | NC | | | 0.21 | 0.25 | 0.48 | N | NC | | | N | NC | | N | NC | SC | S | |
| | SunShield DG SC | 0.25 | 0.22 | 0.51 | | NC | SC | S | 0.25 | 0.20 | 0.46 | | NC | SC | S | N | NC | SC | S | N | NC | SC | S |
| | ThermaGuard DG Low-E | 0.26 | 0.36 | 0.55 | - | - | - | - | 0.26 | 0.33 | 0.49 | - | - | - | - | | NC | | | | NC | | |
| Hopper STC33 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.26 | 0.41 | 0.53 | N26 | | | | 0.26 | 0.37 | 0.48 | | | | | N | | | N | NC | | | |
| | ThermaLock RS DG Low-E | 0.26 | 0.25 | 0.46 | | | | | 0.26 | 0.23 | 0.42 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.28 | 0.20 | 0.44 | | | SC | S | 0.28 | 0.18 | 0.4 | | | SC | S | | NC | SC | S | | NC | SC | S |
| | ThermaGuard DG Low-E | 0.29 | 0.31 | 0.48 | - | - | - | - | 0.29 | 0.29 | 0.43 | - | - | - | - | | NC | | | | NC | | |
| Welded Rolling STC33 | SunGain PLUS DG RS Low-E HIGH SHGC | 0.27 | 0.45 | 0.58 | - | - | - | - | 0.27 | 0.40 | 0.51 | - | - | - | - | N | | | N | NC | | | |
| | ThermaLock RS DG Low-E | 0.26 | 0.27 | 0.51 | - | - | - | - | 0.26 | 0.24 | 0.45 | - | - | - | - | N | NC | | N | NC | SC | S | |
| | SunShield PLUS DG SC RS Low-E Argon | 0.26 | 0.21 | 0.47 | | | SC | S | 0.26 | 0.19 | 0.42 | | | SC | S | N | NC | SC | S | N | NC | SC | S |
| | SunShield DG SC | 0.29 | 0.21 | 0.48 | | | | S | 0.29 | 0.19 | 0.43 | | | | S | | NC | SC | S | | NC | SC | S |
| ThermaGuard DG Low-E | 0.30 | 0.34 | 0.52 | - | - | - | - | 0.30 | 0.31 | 0.47 | - | - | - | - | | NC | | | | NC | | | |

Chart represents thermal values for replacement/Integral J frame windows with Argon gas fill.

THERMAL PERFORMANCE DATA

WOOD WINDOWS

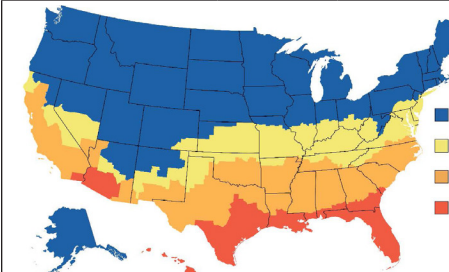
| Product Line | Glazing Description | ENERGY STAR® 7.0 Zone Compliance | | | | | | | | | | | | ENERGY STAR® 6.0 Zone Compliance | | | | | |
|---------------------------------------|--------------------------------|----------------------------------|------|------|----------|----|----|---------------------|------|------|------------|----|----|----------------------------------|----|------------|----|----|---|
| | | Thermal Performance | | | NO GRIDS | | | Thermal Performance | | | WITH GRIDS | | | NO GRIDS | | WITH GRIDS | | | |
| | | U | SHGc | VT | | | | U | SHGc | VT | | | | | | | | | |
| Majesty Double Hung | ThermaLock DG RS 2X Low-E | 0.27 | 0.29 | 0.51 | - | - | - | 0.27 | 0.26 | 0.45 | - | - | - | - | N | NC | | | |
| | SunShield PLUS* DG SC RS Low-E | 0.27 | 0.20 | 0.45 | | SC | S | 0.27 | 0.18 | 0.40 | | SC | S | N | NC | SC | S | | |
| | SunShield* DG SC | 0.30 | 0.20 | 0.46 | | | S | 0.30 | 0.18 | 0.41 | | | S | | NC | SC | S | | |
| Majesty Picture Window (Matches DH) | ThermaLock DG RS 2X Low-E | 0.25 | 0.30 | 0.53 | | NC | | 0.25 | 0.27 | 0.47 | | NC | | N | NC | | | | |
| | SunShield PLUS* DG SC RS Low-E | 0.25 | 0.20 | 0.47 | | NC | SC | S | 0.25 | 0.18 | 0.42 | | NC | SC | S | N | NC | SC | S |
| | SunShield* DG SC | 0.28 | 0.21 | 0.49 | | | SC | S | 0.28 | 0.19 | 0.43 | | | SC | S | | NC | SC | S |
| Majesty Casement | ThermaLock TG RS Low-E | 0.27 | 0.23 | 0.43 | | SC | S | 0.27 | 0.21 | 0.38 | | SC | S | N | NC | SC | S | | |
| | ThermaGuard TG 2X Low-E | 0.30 | 0.23 | 0.38 | | | S | 0.31 | 0.21 | 0.35 | | | S | | NC | SC | S | | |
| | ThermaLock RS TG 2X Low-E | 0.31 | 0.26 | 0.48 | - | - | - | 0.31 | 0.24 | 0.43 | - | - | - | | | | S | | |
| | SunShield PLUS* DG SC RS Low-E | 0.31 | 0.19 | 0.44 | | | S | 0.31 | 0.18 | 0.40 | | | S | | | S | | | |
| | SunShield* TG SC | 0.34 | 0.20 | 0.45 | - | - | - | 0.34 | 0.18 | 0.41 | - | - | - | | | S | | | |
| Majesty Awning | ThermaLock TG RS Low-E | 0.27 | 0.23 | 0.43 | | SC | S | 0.27 | 0.21 | 0.38 | | SC | S | N | NC | SC | S | | |
| | ThermaGuard TG 2X Low-E | 0.30 | 0.23 | 0.38 | | | S | 0.31 | 0.21 | 0.35 | | | S | | NC | SC | S | | |
| | ThermaLock RS DG 2X Low-E | 0.31 | 0.26 | 0.48 | - | - | - | 0.31 | 0.24 | 0.43 | - | - | - | | | | S | | |
| | SunShield PLUS* DG SC RS Low-E | 0.31 | 0.19 | 0.44 | | | S | 0.31 | 0.18 | 0.40 | | | S | | | S | | | |
| | SunShield* TG SC | 0.34 | 0.20 | 0.45 | - | - | - | 0.34 | 0.18 | 0.41 | - | - | - | | | S | | | |
| Majesty Fixed Lite (Matches Casement) | ThermaLock TG RS Low-E | 0.22 | 0.26 | 0.49 | N | NC | | 0.22 | 0.24 | 0.44 | N | NC | | N | NC | SC | S | | |
| | ThermaGuard TG 2X Low-E | 0.30 | 0.23 | 0.38 | | | S | 0.31 | 0.21 | 0.35 | | | S | N | NC | SC | S | | |
| | ThermaLock RS DG 2X Low-E | 0.26 | 0.26 | 0.44 | - | - | - | 0.27 | 0.23 | 0.39 | - | - | - | N | NC | | | | |
| | SunShield PLUS* DG SC RS Low-E | 0.23 | 0.20 | 0.38 | | | SC | S | 0.24 | 0.18 | 0.34 | | | SC | S | N | NC | SC | S |
| | SunShield* DG SC | 0.31 | 0.22 | 0.52 | | | S | 0.31 | 0.20 | 0.47 | | | S | | | S | | | |

* Packages Coming Soon

WOOD PATIO DOORS

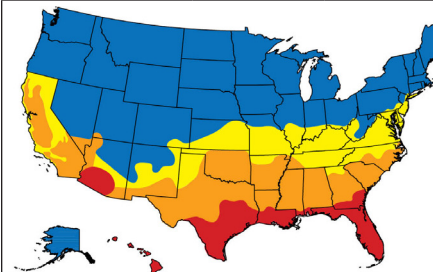
| Product Line | Glazing Description | U | SHGc | VT | NO GRIDS | WITH GRIDS | ENERGY STAR® 6.0 Zone Compliance |
|------------------|---------------------------------|------|------|------|----------|------------|----------------------------------|
| Majesty Gliding | ThermaLock DG RS 2X Low-E | 0.28 | 0.19 | 0.45 | SC | S | N28 |
| Majesty Outswing | ThermaLock DG 2X Low-E | 0.29 | 0.36 | 0.43 | | | N |
| Majesty Inswing | SunGain PLUS RS Low-E HIGH SHGc | 0.28 | 0.35 | 0.43 | | | N |

ENERGY STAR® 7.0 Qualification Criteria



| WINDOWS | | |
|---------------------|----------|--------|
| US Climate Zones | U-Factor | SHGc |
| Northern | ≤ 0.22 | ≥ 0.17 |
| Northern Equivalent | = 0.23 | ≥ 0.35 |
| | = 0.24 | ≥ 0.35 |
| | = 0.25 | ≥ 0.40 |
| | = 0.26 | ≥ 0.40 |
| North-Central | ≤ 0.25 | ≤ 0.40 |
| South-Central | ≤ 0.28 | ≤ 0.23 |
| Southern | ≤ 0.32 | ≤ 0.23 |
| PATIO DOORS | | |
| Northern | ≤ 0.26 | ≤ 0.40 |
| North-Central | ≤ 0.26 | ≤ 0.40 |
| South-Central | ≤ 0.28 | ≤ 0.23 |
| Southern | ≤ 0.28 | ≤ 0.23 |

ENERGY STAR® 6.0 Qualification Criteria



| WINDOWS | | |
|------------------|----------|--------|
| US Climate Zones | U-Factor | SHGc |
| Northern | ≤ 0.27 | ANY |
| N28 | = 0.28 | ≥ 0.32 |
| N29 | = 0.29 | ≥ 0.37 |
| N30 | = 0.30 | ≥ 0.42 |
| North-Central | ≤ 0.30 | ≤ 0.40 |
| South-Central | ≤ 0.30 | ≤ 0.25 |
| Southern | ≤ 0.40 | ≤ 0.25 |
| PATIO DOORS | | |
| Northern | ≤ 0.30 | ≤ 0.40 |
| North-Central | ≤ 0.30 | ≤ 0.40 |
| South-Central | ≤ 0.30 | ≤ 0.25 |
| Southern | ≤ 0.30 | ≤ 0.25 |

Notes:

U-Factor in accordance with NFRC-100 and based on whole window values.
 Performance values shown are for "Single Strength" glass, unless otherwise noted.
 Performance with "Double Strength" glass, different reinforcement levels, may vary.
 Performance with 1" grids may vary.
 Select glass types shown - others are available subject to special inquiry.
 Tempered Low-E and Bronze Tint glass will affect U-Factor, SHGc and VT values.
 Obscured glass is treated as Clear glass and shares the same thermal data.
 All Patio Door Glazing Options are Tempered Glass only.



Ratings depend on size tested.
 Our products are tested for performance regularly.
 Test results subject to change.

STRUCTURAL PERFORMANCE DATA

VINYL WINDOWS AND PATIO DOORS

| Product Line | Unit Size W x H | Configuration | Air Infiltration cfm/ft ² | Water Resistance psf | Structural Test Pressure psf | DP Rating | Structural Rating |
|---|----------------------------|-----------------|--|----------------------------|---------------------------------------|-----------|----------------------|
| Tribute Double Hung | 54" x 91"† | Single | 0.06 | 5.43 | 52.63 | DP35 | H-LC35 |
| | 48" x 84" | Single | 0.01 | 5.43 | 52.63 | DP35 | H-LC35 |
| | 42" x 77"†**^ | Single | 0.01 | 7.52 | 74.24 | DP50 | H-LC50 |
| | 85-1/2" x 75" | 2-Wide CJ | 0.06 | 5.43 | 52.63 | DP35 | H-LC35 |
| Classic Double Hung | 48" x 84" | Single | 0.01 | 6.06 | 60.15 | DP40 | H-LC40 |
| | 42" x 77"†^ | Single | 0.03 | 7.52 | 75.24 | DP50 | H-LC50 |
| | 72" x 72" | 2-Wide CJ | 0.14 | 6.90 | 67.70 | DP45 | H-LC45 |
| | 110" x 72" | DH-PW-DH CJ | 0.03 | 5.43 | 52.63 | DP35 | H-LC35 |
| | 110" x 72" | 3-Wide CJ | 0.17 | 5.43 | 52.63 | DP35 | H-LC35 |
| Slimline Double Hung & Single Hung | 46" x 77" | Single | 0.01 | 4.59 | 45.11 | DP30 | H-LC30 |
| | 54" x 77" | Single | 0.26 | 6.06 | 37.59 | DP25 | H-LC25 |
| | 40" x 63"†**^ | Single | 0.01 | 7.52 | 75.19 | DP50 | H-LC50 |
| | 37" x 72"***^ | Single | 0.01 cfm/ft ² | 7.52 psf | 75.19 psf | DP50 | H-LC50 |
| | 72" x 72" | 2-Wide CJ | 0.07 | 5.43 | 52.63 | DP35 | H-LC35 |
| Vinyl Awning | 48" x 58" | Single | 0.01 | 8.35 | 60.15 | DP40 | AP-LC40 |
| | 64" x 32"† | Single | 0.01 | 7.52 | 75.19 | DP50 | AP-LC50 |
| | 60" x 42" | Single | 0.01 | 6.06 | 60.19 | DP40 | AP-C40 |
| Vinyl Casement | 36" x 80" | Single | 0.01 | 8.35 | 82.71 | DP55 | C-C55 |
| | 71-1/4" x 80" | 2-Wide CJ | 0.04 | 5.43 | 52.63 | DP35 | C-C35 |
| | 60" x 72" | 2-Wide CJ | 0.04 | 7.52 | 75.19 | DP55 | C-C55 |
| Fixed Vinyl Casement / Awning | 60" x 80" | Single | 0.01 | 7.52 | 60.19 | DP40 | F-C40 |
| | 64" x 56" | Single | 0.02 | 7.52 | 75.19 | DP50 | F-C50 |
| | 36" x 72" | Single | 0.01 | 8.35 | 82.71 | DP55 | F-C55 |
| | 46" x 60" | Single | 0.01 | 6.06 | 60.19 | DP40 | F-C40 |
| Venting Vinyl Awning over Fixed w/Mull & CJ | 65" x 77"† | Stacked CJ-Mull | 0.01 | 7.52 | 75.19 | DP50 | AP-LC50 |
| Fixed Vinyl Casement over Venting Awning | 64" x 78"† | Stacked CJ | 0.03 | 7.52 | 75.19 | DP50 | AP-LC50 |
| Vinyl PW mulled over Venting Awning | 64" x 78"† | Stacked Mull | 0.01 | 7.52 | 75.19 | DP50 | AP-LC50 |
| Vinyl PW mulled over Venting Awning CJ-2 | 72" x 103"† | Stacked Mull | 0.07 | 7.52 | 75.19 | DP50 | AP-LC50 |
| Vinyl Picture Window | 72" x 72" | Single | 0.01 | 8.35 | 82.71 | DP55 | F-C55 |
| | 110" x 72" | 2-Wide CJ | 0.01 | 4.59 | 45.11 | DP30 | F-LC30 |
| Vinyl Designer Shape | 78" x 85-1/4" | Single | 0.01 | 7.52 | 75.19 | DP50 | F-C50 |
| | 64" x 64" | Single | 0.01 | 7.52 | 75.19 | DP50 | F-C50 |
| Welded Vinyl Rolling Window | 72" x 62-1/2" | 2-Lite | 0.01 | 5.43 | 52.63 | DP35 | HS-LC35 |
| | 120" x 62-1/2" | 3-Lite | 0.07 | 3.76 | 37.59 | DP25 | HS-LC25 |
| Vinyl Hopper Window | 48" x 32" | Single | 0.06 | 2.92 | 22.57 | DP15 | AP-R15 |
| Vinyl Patio Door (with or without Transom) | 96" x 80" (8068) | 2-Lite | 0.13 | 5.43 | 52.63 | DP35 | SD-R35 |
| Vinyl Patio Door | 96" x 96" (8080) | 2-Lite | 0.05 cfm/ft ² | 5.43 psf | 37.59 psf | DP25 | SD-R25 |
| | 144" x 80" (12068) | 3-Lite OXO | 0.01 cfm/ft ² | 5.43 psf | 52.63 psf | DP35 | SD-R35 |
| | 139-3/4" x 95-1/2" (12080) | 4-Lite OXXO | 0.05 cfm/ft ² | 3.76 psf | 37.59 psf | DP25 | SD-R25 |
| | | | | | | | |

STRUCTURAL PERFORMANCE DATA

WOOD WINDOWS

| Product Line | Unit Size W x H | Configuration | Air | Water | Structural Test Pressure psf | DP Rating | Structural Rating |
|--|--------------------|---------------|------|-------|---------------------------------------|-----------|----------------------|
| Majesty Double Hung | 44" x 75" | Single | 0.07 | 5.43 | 52.66 | DP35 | H-R35 |
| Majesty Picture Window | 54" x 54" | Single | 0.01 | 3.76 | 52.63 | DP35 | F-LC35 |
| Majesty Casement | 32" x 72" | Single | 0.01 | 3.76 | 37.59 | DP25 | C-LC25 |
| Majesty Fixed Casement | 60" x 72" | Single | 0.01 | 3.13 | 30.08 | DP20 | F-R20 |
| Majesty Awning | 48" x 39" | Single | 0.01 | 5.43 | 52.63 | DP35 | AP-C35 |
| Majesty Gliding Window | 72" x 61" | 2-Lite | 0.26 | 3.75 | 37.59 | DP25 | HS-R25 |
| Majesty Gliding Patio Door | 72" x 108" | 2-Lite | 0.24 | 4.59 | 45.11 | DP30 | SD-R30 |
| | 96" x 96" | 2-Lite | 0.19 | 6.90 | 60.15 | DP40 | SD-LC40 |
| | 192" x 82" | 4-Lite | 0.21 | 5.43 | 52.63 | DP35 | SD-R35 |
| | 192" x 96" | 4-Lite | 0.18 | 3.75 | 37.59 | DP25 | SD-LC25 |
| Majesty Hinged Patio Door In-swing Multi Point | 64" x 82" | 2-Lite | 0.08 | 6.90 | 60.15 | DP40 | SHD-R40 |
| | 64" x 96" | 2-Lite | 0.10 | 6.90 | 60.15 | DP40 | SHD-R40 |
| | 72" x 96" | 2-Lite | 0.10 | 7.52 | 75.19 | DP50 | SHD-R50 |
| | 72" x 108" | 2-Lite | 0.08 | 4.59 | 45.11 | DP30 | SHD-R30 |
| Majesty Hinged Patio Door Out-swing Multi Point | 64" x 82" | 2-Lite | 0.20 | 6.90 | 60.15 | DP40 | SHD-R40 |
| | 64" x 96" | 2-Lite | 0.10 | 6.90 | 60.15 | DP40 | SHD-R40 |
| | 72" x 96" | 2-Lite | 0.10 | 7.52 | 75.19 | DP50 | SHD-LC50 |
| | 72" x 108" | 2-Lite | 0.04 | 4.59 | 45.11 | DP30 | SHD-R30 |

Notes:

† Reinforced sash

** Sill Rise Extender will reduce clear opening height by 9/16"

^ DP50 Package Required

Legend:

| | |
|-----------------------------|---|
| Product Line | Describes that product line of windows and doors and provides the Name for that line. |
| Unit Size | Shows the overall size of the window tested to achieve the results listed. |
| Configuration | Indicates the window or door configuration, number of units and/or shape tested |
| Air Infiltration | A measure of a windows air flow passing through the window taken at 1.57 psf. (25 mph equivalent). |
| Water Resistance | A measure of a windows water performance or resistance to water entry expressed in psf. |
| Structural Test Pressure | Overload pressure used during testing (1.5 x Design Pressure) |
| Design Pressure (DP Rating) | Overall structural performance rating for the subject window based on Air, Water and Structural performance |
| psf | Pressure measurement = Pounds per square foot (Lbs./ft ²) |
| cfm/ft ² | Air Infiltration measurement expressed in Cubic Feet / Minute / Square Foot of window |
| Single | Indicates a single unit was tested to achieve the results |
| 2-Wide CJ | Indicates window is a 2-Wide unit made in a Common Jamb configuration |
| 3-Wide CJ | Indicates window is a 3-Wide unit made in a Common Jamb configuration |
| 2-Lite | Indicates a 2-Lite window configuration on windows that can be 2 or 3 lites |
| 3-Lite | Indicates a 3-Lite window configuration on windows that can be 2 or 3 lites |

Performance Class:

| | |
|-----------------------|-------|
| R = Residential | ≥DP15 |
| LC = Light Commercial | ≥DP25 |
| CW = Commercial | ≥DP30 |

Product Type:

| |
|----------------------------------|
| H = Single or Double Hung window |
| AP = Awning Projected Window |
| C = Casement Window |
| F = Fixed Window |
| HS = Horizontal Slider Window |
| DAW = Dual Action Window |
| SD = Sliding Door |
| SHD = Side Hinged Door |



Ratings depend on size tested.
Our products are tested for performance regularly.
Test results subject to change.

