

FCM Tested Performance Information

| Glass | 04 | 05 / 05C | 06** | 08 | 10 | 29 / 30 | 99 93 | 99 94 |
|--|--------------------------------------|-------------|-------|------|------|---------|-------|-------|
| Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft ²) differential pressure] | | | | | | | | |
| l/s/m ² | 0.2 | <.1 | <.1 | 0.2 | 0.1 | 0.3 | <.1 | 0.2 |
| cfm/ft ² | 0.03 | <0.01 | <0.01 | 0.03 | 0.01 | 0.05 | <0.01 | 0.03 |
| Water resistance @ 3.4 L/m²/min (5 USgal/ft²/hr) * [max. tested differential pressure with no leakage] | | | | | | | | |
| Pascals | 720 | 720 | 720 | 720 | 720 | 720 | 720 | 720 |
| lbs/ft ² | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Thermal performance (Certified, complete unit values) | | | | | | | | |
| <ul style="list-style-type: none"> VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified U-Factor, SHGC, and VT ratings listed in the NFRC Certified Products Directory. Ratings for products with standard available fitted shades are available. | | | | | | | | |
| U-Factor (Btu/hr-ft ² -°F) | 0.48 | 0.49 / 0.45 | 0.46 | 0.48 | 0.47 | 0.38 | 0.43 | 0.42 |
| SHGC | 0.27 | 0.27 / 0.28 | 0.28 | 0.26 | 0.28 | 0.25 | 0.27 | 0.27 |
| VT | 0.64 | 0.64 / 0.63 | 0.63 | 0.45 | 0.63 | 0.58 | 0.62 | 0.62 |
| UV protection, % (Glass panel only) | | | | | | | | |
| (300-380 nm) | 99.9 | 95.2 | 99.9 | 99.9 | 99.9 | 95.2 | 95.3 | 99.9 |
| Fading protection, % Krochmann damage function (Glass panel only) | | | | | | | | |
| (300-600 nm) | 83.1 | 79.2 | 84.6 | 88.4 | 83.2 | 79.2 | 81.6 | 85.1 |
| Certified Structural Performance [Performance Grade or DP] * | | | | | | | | |
| Tested Size | Uplift (lbs/ft²) | | | | | | | |
| 4672 | 80 | n.r. | n.r. | 80 | n.r. | n.r. | n.r. | 80 |
| 4646 | 120 | 140 | 80 | 120 | 135 | 60 | 140 | 120 |
| 2270 | 100 | n.r. | n.r. | 100 | n.r. | n.r. | n.r. | 100 |
| Tested Size | Download (lbs/ft²) | | | | | | | |
| 4672 | 70 | n.r. | n.r. | 70 | n.r. | n.r. | n.r. | 70 |
| 4646 | 250 | 100 | 100 | 250 | 970 | 75 | 100 | 250 |
| 2270 | 200 | n.r. | n.r. | 200 | n.r. | n.r. | n.r. | 200 |
| * Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) | | | | | | | | |
| ** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, Florida HVHZ : Large Missile Level D, Cycle Pressure +50/-50, tested per TAS 201, 202 and 203 (Wind Zone 4) Large Missile Level C, Cycle Pressure +50/-50, tested per ASTM E 1886 and ASTM E 1996 | | | | | | | | |
| Structural performance ratings also apply to sizes smaller than the Tested Size FCM skylights are WDMA Hallmark certified: Product Number 426-H-701.xx | | | | | | | | |
| 04 glass: Tempered over laminated HS (0.030" interlayer) 05 glass: Tempered over tempered; 05C for Canada has a smaller pane gap 06 glass: Tempered over laminated HS (0.090" interlayer) 08 glass: Same as 04, with white interlayer 10 glass: Temp. over laminated temp. (0.030" interlayer) 29 glass: Tempered over tempered over laminated HS (0.030" interlayer) 30 glass: Tempered over tempered over tempered 99 93 glass: Same as 05, with i89 coating on interior surface 99 94 glass: Same as 04, with i89 coating on interior surface | | | | | | | | |
| NOTE: The FCM 4646 (or smaller) 06 is the only VELUX glass skylight currently qualified for use in the Florida HVHZ (High Velocity Hurricane Zone). | | | | | | | | |