

**VELUX®**

Skylights

**Residential skylights**

**Tested performance information**

VSE/VSS Tested Performance Information					
Glass	04	06**	08	10	99 94
<b>Air infiltration/exfiltration</b> * [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]					
l/s/m <sup>2</sup>	0.2	0.4	0.2	0.3	0.2
cfm/ft <sup>2</sup>	0.03	0.07	0.03	0.06	0.03
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)					
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>• Ratings for products with standard available fitted shades are available.</li> </ul>					
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> -°F)	0.43	0.41	0.43	0.42	0.38
<b>SHGC</b>	0.23	0.23	0.22	0.23	0.23
<b>VT</b>	0.53	0.53	0.38	0.53	0.52
<b>UV protection, %</b> (Glass panel only)					
(300-380 nm)	99.9	99.9	99.9	99.9	99.9
<b>Fading protection, %</b> , Krochmann damage function (Glass panel only)					
(300-600 nm)	83.1	84.6	88.4	83.2	85.1
<b>Certified Structural Performance</b> [Performance Grade or DP] *					
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>				
<b>S06</b>	65	65	65	80	65
<b>M08</b>	105	65	105	85	105
<b>C06</b>	n.r.	n.r.	n.r.	90	n.r.
Tested Size	<b>Download (lbs/ft<sup>2</sup>)</b>				
<b>S06</b>	370	300	370	860	370
<b>M08</b>	440	360	440	1090	440
<b>C06</b>	n.r.	n.r.	n.r.	1200	n.r.
<p>* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for <b>Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</b></p> <p>Structural performance ratings also apply to sizes smaller than the Tested Sizes VSE and VSS skylights are WDMA Hallmark certified: <b>Product Number 426-H-670.xx</b> (not applicable to copper-clad variants)</p>					
<p><b>04</b> glass: Tempered over laminated HS (0.030" interlayer)  <b>06</b> glass: Tempered over laminated HS (0.090" interlayer)  <b>08</b> glass: Same as <b>04</b>, with white interlayer  <b>10</b> glass: Temp. over laminated temp. (0.030" interlayer)  <b>99 94</b> glass: Same as <b>04</b>, with i89 coating on interior surface</p>					

VS Tested Performance Information							
Glass	04	05	06**	08	10	99 93	99 94
Air infiltration/exfiltration * [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.2	0.5	0.4	0.2	0.3	0.5	0.2
cfm/ft <sup>2</sup>	0.03	0.09	0.07	0.03	0.06	0.09	0.03
Water resistance @ 3.4 L/m <sup>2</sup> /min (5 USgal/ft <sup>2</sup> /hr) * [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15
Thermal performance (Certified, complete unit values)							
<ul style="list-style-type: none"> <li>VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>Ratings for products with standard available fitted shades are available.</li> </ul>							
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> ·°F)	0.43	0.44	0.41	0.43	0.42	0.39	0.38
<b>SHGC</b>	0.23	0.23	0.23	0.22	0.23	0.23	0.23
<b>VT</b>	0.53	0.54	0.53	0.38	0.53	0.52	0.52
UV protection, % (Glass panel only)							
(300-380 nm)	99.9	95.2	99.9	99.9	99.9	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	81.6	85.1
Certified Structural Performance [Performance Grade or DP] *							
Tested Size	Uplift (lbs/ft <sup>2</sup> )						
<b>S06</b>	65	90	65	65	80	90	65
<b>M08</b>	105	120	65	105	85	120	105
<b>C06</b>	n.r.	n.r.	n.r.	n.r.	90	n.r.	n.r.
Tested Size	Download (lbs/ft <sup>2</sup> )						
<b>S06</b>	370	370	300	370	860	300	370
<b>M08</b>	440	550	360	440	1090	400	440
<b>C06</b>	n.r.	n.r.	n.r.	n.r.	1200	n.r.	n.r.
<p>* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</p> <p>Structural performance ratings also apply to sizes smaller than the Tested Size VS skylights are WDMA Hallmark certified: <b>Product Number 426-H-670.xx</b> (not applicable to copper-clad variants)</p>							
<p>04 glass: Tempered over laminated HS (0.030" interlayer) 05 glass: Tempered over tempered 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) 99 93 glass: Same as 05, with i89 coating on interior surface 99 94 glass: Same as 04, with i89 coating on interior surface</p>							

FS Tested Performance Information							
Glass	04	05	06**	08	10	99 93	99 94
<b>Air infiltration/exfiltration</b> * [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.1	0.2	0.1	0.1	0.1	0.2	0.1
cfm/ft <sup>2</sup>	0.01	0.04	0.01	0.01	0.01	0.04	0.01
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)							
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>• Ratings for products with standard available fitted shades are available.</li> </ul>							
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> ·°F)	0.44	0.44	0.41	0.44	0.42	0.39	0.38
<b>SHGC</b>	0.26	0.26	0.26	0.25	0.26	0.25	0.25
<b>VT</b>	0.60	0.61	0.60	0.42	0.60	0.59	0.59
<b>UV protection, % (Glass panel only)</b>							
(300-380 nm)	99.9	95.2	99.9	99.9	99.9	95.3	99.9
<b>Fading protection, % Krochmann damage function (Glass panel only)</b>							
(300-600 nm)	83.1	79.2	84.6	88.4	83.2	81.6	85.1
<b>Certified Structural Performance</b> [Performance Grade or DP] *							
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>						
<b>S06</b>	60	45	65	70	65	45	70
<b>M08</b>	105	90	120	105	100	90	105
<b>C06</b>	n.r.	n.r.	n.r.	n.r.	65	n.r.	n.r.
Tested Size	<b>Download (lbs/ft<sup>2</sup>)</b>						
<b>S06</b>	160	400	300	160	720	400	160
<b>M08</b>	350	400	300	350	1180	400	350
<b>C06</b>	n.r.	n.r.	n.r.	n.r.	1250	n.r.	n.r.
<p>* Tested in accordance with AAMA/WDMA/CSA 101/1.S.2/A440-11 (NAFS 2011)</p> <p>** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996.</p> <p>Rated for <b>Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</b></p> <p>Structural performance ratings also apply to sizes smaller than the Tested Size</p> <p>FS skylights are WDMA Hallmark certified: <b>Product Number 426-H-672.xx</b> (not applicable to copper-clad variants)</p>							
<p><b>04</b> glass: Tempered over laminated HS (0.030" interlayer)</p> <p><b>05</b> glass: Tempered over tempered</p> <p><b>06</b> glass: Tempered over laminated HS (0.090" interlayer)</p> <p><b>08</b> glass: Same as <b>04</b>, with white interlayer</p> <p><b>10</b> glass: Temp. over laminated temp. (0.030" interlayer)</p> <p><b>99 93</b> glass: Same as <b>05</b>, with i89 coating on interior surface</p> <p><b>99 94</b> glass: Same as <b>04</b>, with i89 coating on interior surface</p>							

VCE/VCS Tested Performance Information					
Glass	04	06**	08	10	99 94
Air infiltration/exfiltration* [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]					
l/s/m <sup>2</sup>	0.1	0.1	0.1	<0.1	0.1
cfm/ft <sup>2</sup>	0.02	0.01	0.02	<0.01	0.02
Water resistance @ 3.4 L/m <sup>2</sup> /min (5 USgal/ft <sup>2</sup> /hr) * [max. tested differential pressure with no leakage]					
Pascals	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15
Thermal performance (Certified, complete unit values)					
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>• Ratings for products with standard available fitted shades are available.</li> </ul>					
<b>U-Factor</b> (Btu/hr·ft <sup>2</sup> ·°F)	0.52	0.48	0.52	0.49	0.47
<b>SHGC</b>	0.24	0.24	0.23	0.24	0.23
<b>VT</b>	0.55	0.55	0.39	0.55	0.54
UV protection, % (Glass panel only)					
(300-380 nm)	99.9	99.9	99.9	99.9	99.9
Fading protection, % Krochmann damage function (Glass panel only)					
(300-600 nm)	83.1	84.6	88.4	83.2	85.1
Certified Structural Performance [Performance Grade or DP] *					
Tested Size	Uplift (lbs/ft <sup>2</sup> )				
4646	45	60	45	40	45
2246	n.r.	n.r.	n.r.	65	n.r.
	Download (lbs/ft <sup>2</sup> )				
4646	230	230	230	620	230
2246	n.r.	n.r.	n.r.	1150	n.r.
<p>* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for <b>Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</b></p> <p>Structural performance ratings also apply to sizes smaller than the Tested Size VCE and VCS skylights are WDMA Hallmark certified: <b>Product Number 426-H-695.xx</b></p>					
<p>04 glass: Tempered over laminated HS (0.030" interlayer) 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) 99 94 glass: Same as 04, with i89 coating on interior surface</p>					

## VCM Tested Performance Information

Glass	04	05	06**	08	10	99 93	99 94
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]							
l/s/m <sup>2</sup>	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1
cfm/ft <sup>2</sup>	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.02
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]							
Pascals	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)							
<ul style="list-style-type: none"> <li>VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>Ratings for products with standard available fitted shades are available.</li> </ul>							
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> -°F)	0.52	0.53	0.48	0.52	0.49	0.48	0.47
<b>SHGC</b>	0.24	0.24	0.24	0.23	0.24	0.23	0.23
<b>VT</b>	0.55	0.56	0.55	0.39	0.55	0.54	0.54
<b>UV protection, % (Glass panel only)</b>							
(300-380 nm)	99.9	95.2	99.9	99.9	99.9	95.3	99.9
<b>Fading protection, % Krochmann damage function (Glass panel only)</b>							
(300-600 nm)	83.1	79.2	84.6	88.4	83.2	81.6	85.1
<b>Certified Structural Performance</b> [Performance Grade or DP] *							
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>						
4646	45	30	60	45	40	30	45
2246	n.r.	n.r.	n.r.	n.r.	65	n.r.	n.r.
	<b>Download (lbs/ft<sup>2</sup>)</b>						
4646	230	230	230	230	620	230	230
2246	n.r.	n.r.	n.r.	n.r.	1150	n.r.	n.r.
<p>* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>** 06 variant is tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with ASTM E 1886 and ASTM E 1996. Rated for <b>Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</b></p> <p>Structural performance ratings also apply to sizes smaller than the Tested Size <b>VCM skylights are WDMA Hallmark certified: Product Number 426-H-695.xx</b></p>							
<p>04 glass: Tempered over laminated HS (0.030" interlayer) 05 glass: Tempered over tempered 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) 99 93 glass: Same as 05, with i89 coating on interior surface 99 94 glass: Same as 04, with i89 coating on interior surface</p>							

## FCM Tested Performance Information

Glass	04 / 14	05 / 15	05C	06 / 16**	08	10	29 / 30	99 93	99 94
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]									
l/s/m <sup>2</sup>	0.2	<.1	<.1	<.1	0.2	0.1	0.3	<.1	0.2
cfm/ft <sup>2</sup>	0.03	<0.01	<0.01	<0.01	0.03	0.01	0.05	<0.01	0.03
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]									
Pascals	720	720	720	720	720	720	720	720	720
lbs/ft <sup>2</sup>	15	15	15	15	15	15	15	15	15
<b>Thermal performance</b> (Certified, complete unit values)									
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>• Ratings for products with standard available fitted shades are available.</li> </ul>									
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> -°F)	0.48	0.49	0.45	0.46	0.48	0.47	0.38	0.43	0.42
<b>SHGC</b>	0.27 / 0.18	0.27 / 0.18	0.28	0.28 / 0.19	0.27	0.28	0.25	0.27	0.27
<b>VT</b>	0.64 / 0.38	0.63 / 0.38	0.63	0.63 / 0.38	0.45	0.63	0.58	0.58	0.58
<b>UV protection, %</b> (Glass panel only)									
(300-380 nm)	99.9	95.2	95.2	99.9	99.9	99.9	95.2	95.3	99.9
<b>Fading protection, %</b> Krochmann damage function (Glass panel only)									
(300-600 nm)	83.1	79.2	79.2	84.6	88.4	83.2	79.2	81.6	85.1
<b>Certified Structural Performance</b> [Performance Grade or DP] *									
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>								
4672	80	n.r.	n.r.	n.r.	80	n.r.	n.r.	n.r.	80
4646	120	140	140	80	120	135	60	140	120
2270	100	n.r.	n.r.	n.r.	100	n.r.	n.r.	n.r.	100
Tested Size	<b>Download (lbs/ft<sup>2</sup>)</b>								
4672	70	n.r.	n.r.	n.r.	70	n.r.	n.r.	n.r.	70
4646	250	100	100	100	250	970	75	100	250
2270	200	n.r.	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 and 16 variants are 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: <b>Product Number 426-H-701.xx</b>									
04 and 14 glass: Tempered over laminated HS (0.030" interlayer) - Low-E366 (04) / Low-E340 (14) 05 and 15 glass: Tempered over tempered; 05C has a smaller pane gap - Low-E366 (05 and 05C) / Low-E340 (15) 06 and 16 glass: Tempered over laminated HS (0.090" interlayer) - Low-E366 (06) / Low-E340 (16) 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 or 16 is the only VELUX glass skylight currently qualified for use in the Florida HVHZ (High Velocity Hurricane Zone).									

## QPF Tested Performance Information

Glass	04 / 14	05 / 15	06 / 16**	08	99 93	99 94
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]						
l/s/m <sup>2</sup>	0.5	0.3	0.4	0.5	0.3	0.5
cfm/ft <sup>2</sup>	0.09	0.06	0.08	0.09	0.06	0.09
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]						
Pascals	580	720	720	580	720	580
lbs/ft <sup>2</sup>	12	15	15	12	15	12
<b>Thermal performance</b> (Certified, complete unit values)						
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> <li>• Ratings for products with standard available fitted shades are available.</li> </ul>						
<b>U-Factor</b> (Btu/hr·ft <sup>2</sup> ·°F)	<b>0.42</b>	0.43	0.40	0.42	0.38	0.37
<b>SHGC</b>	0.25 / <b>0.16</b>	0.24 / <b>0.16</b>	0.25 / <b>0.17</b>	0.24	0.24	0.24
<b>VT</b>	0.57 / <b>0.34</b>	0.57 / <b>0.34</b>	0.57 / <b>0.34</b>	0.40	0.56	0.56
<b>UV protection, % (Glass panel only)</b>						
(300-380 nm)	99.9	95.2	99.9	99.9	95.3	99.9
<b>Fading protection, %, Krochmann damage function (Glass panel only)</b>						
(300-600 nm)	83.1	79.2	84.6	88.4	81.6	85.1
<b>Certified Structural Performance</b> [Performance Grade or DP] *						
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>					
<b>4646</b>	80	80	100	80	80	80
Tested Size	<b>Download (lbs/ft<sup>2</sup>)</b>					
<b>4646</b>	320	300	300	320	300	320
<p>* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011)</p> <p>** <b>06</b> and <b>16</b> variants are tested and WDMA Hallmark certified for Wind-Borne debris impact, in accordance with <b>ASTM E 1886</b> and <b>ASTM E 1996</b>. Rated for <b>Wind Zone 3, Missile Level C, Cycle Pressure +50/-50</b></p> <p>Structural performance ratings also apply to sizes smaller than the Tested Size QPF skylights are WDMA Hallmark certified: <b>Product Number 426-H-677.xx</b></p>						
<p><b>04</b> and <b>14</b> glass: Tempered over laminated HS (0.030" interlayer) - Low-E366 (04) / Low-E340 (14)</p> <p><b>05</b> and <b>15</b> glass: Tempered over tempered - Low-E366 (05) / Low-E340 (15)</p> <p><b>06</b> and <b>16</b> glass: Tempered over laminated HS (0.090" interlayer) - Low-E366 (06) / Low-E340 (16)</p> <p><b>08</b> glass: Same as <b>04</b>, with white interlayer</p> <p><b>10</b> glass: Temp. over laminated temp. (0.030" interlayer)</p> <p><b>99 93</b> glass: Same as <b>05</b>, with i89 coating on interior surface</p> <p><b>99 94</b> glass: Same as <b>04</b>, with i89 coating on interior surface</p>						



Tested Performance Information - E-Class and GSM Products								
Model	EF 04	EF 05	EFHR 06**	EV 04	EV 05	EVMS 04	EVMS 05	GSM 99 100
<b>Air infiltration/exfiltration*</b> [max. @ 75 Pa (1.57 lbs/ft <sup>2</sup> ) differential pressure]								
l/s/m <sup>2</sup>	<.1	<.1	0.05	0.1	0.1	0.1	0.1	<.1
cfm/ft <sup>2</sup>	<0.01	<0.01	0.01	0.01	0.01	0.01	0.01	<0.01
<b>Water resistance @ 3.4 L/m<sup>2</sup>/min (5 USgal/ft<sup>2</sup>/hr) *</b> [max. tested differential pressure with no leakage]								
Pascals	958	958	760	720	720	720	720	580
lbs/ft <sup>2</sup>	20	20	15.75	15	15	15	15	12
<b>Thermal performance</b> (Certified, complete unit values)								
<ul style="list-style-type: none"> <li>• VELUX Glass Skylights are rated at 20° slope and labeled with NFRC-certified <b>U-Factor</b>, <b>SHGC</b>, and <b>VT</b> ratings listed in the NFRC Certified Products Directory.</li> </ul>								
<b>U-Factor</b> (Btu/hr-ft <sup>2</sup> -°F)	0.48	0.46	0.45	0.48	0.49	0.48	0.49	0.51
<b>SHGC</b>	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25
<b>VT</b>	0.57	0.59	0.57	0.57	0.58	0.57	0.58	0.58
<b>Certified Structural Performance</b> [Performance Grade or DP] *								
Tested Size	<b>Uplift (lbs/ft<sup>2</sup>)</b>							
4646	90	90	80 **	90	90	90	90	-
5296	-	-	-	-	-	-	-	80
Tested Size	<b>Download (lbs/ft<sup>2</sup>)</b>							
4646	90	90	80 **	90	90	90	90	-
5296	-	-	-	-	-	-	-	80
* Tested in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11 (NAFS 2011) - except EFHR								
** EFHR Tested in accordance with ASTM E283, ASTM E547, ASTM E330, ASTM E1996, ASTM E1886 TAS 201-94 Large Missile Impact Test, Level D, Wind Zone 4 TAS 202 -94 Uniform Static Air Pressure, ±80.0psf design pressure, 9.0psf water penetration (safety factor of 2) TAS 203-94 Cyclic Pressure loading ±80.0psf design pressure								
Structural performance ratings also apply to sizes smaller than the Tested Size EF skylights are AAMA certified.								
<b>04 glass:</b> (EML) ClearTempered E366 (#2) over laminated HS (0.030" PVB interlayer) <b>05 glass:</b> (EMT) Clear Tempered E366 (#2) over Clear Tempered <b>06 glass:</b> Clear Tempered SB70XL (2#2) over laminated HS (0.090" SG interlayer) <b>99 100 glass:</b> Clear SB70XL (#2) Tempered over Clear laminated HS (0.060" PVB interlayer)								