



Skylights

Residential skylight sizes

2008 edition













Bringing light to life™

Product Sizes











To assist you in your planning, these charts provide the data useful in specifying and installing your VELUX skylights. Each model is shown with the available size measurements and other necessary information.

Models VSE and VS





Size code											
Outside frame	in.	21½ x 27⅞	21½ x 38⅞	21½ x 46¾	21½ x 54⅝	23⅞ x 46⅞	30⅞ x 38⅞	30⅞ x 46¾	30⅞ x 54⅝	44¾ x 27⅞	44¾ x 46¾
Finished framing	in.	20⅞ x 26⅞	20⅞ x 37⅞	20⅞ x 45⅞	20⅞ x 53¾	22½ x 45⅞	29⅞ x 37⅞	29⅞ x 45⅞	29⅞ x 53¾	43⅞ x 26⅞	43⅞ x 45⅞
Rough opening*	in.	21½ x 27⅞	21½ x 38⅞	21½ x 46¾	21½ x 55⅞	22½ x 45⅞	30⅞ x 38⅞	30⅞ x 46¾	30⅞ x 55⅞	44¾ x 27⅞	44¾ x 46¾
Daylight area (glass)	in.	16¾ x 20⅞	16¾ x 31⅞	16¾ x 39¾	16¾ x 48⅞	18½ x 39¾	25⅞ x 31⅞	25⅞ x 39¾	25⅞ x 48⅞	40 x 20⅞	40 x 39¾
Ventilation area	sq. ft.	1.37	3.63	4.16	4.77	4.27	4.27	4.80	5.41	2.18	5.82
Net wt (Lam. glass)	VSE/VS lbs.	41/38	50/47	59/55	65/64	62/58	64/57	73/71	82/80	65/65	96/93

* Rough opening for type EDL, EDM, EDW flashings.

Model FS

Size code											
Outside frame	in.	15¼ x 46¼	21½ x 27⅞	21½ x 38⅞	21½ x 46¾	21½ x 54⅝	21½ x 70¾	23⅞ x 23⅞	23⅞ x 46⅞	30⅞ x 30½	30⅞ x 38⅞
Finished framing	in.	14⅞ x 45⅞	20⅞ x 26⅞	20⅞ x 37⅞	20⅞ x 45⅞	20⅞ x 53¾	20⅞ x 69¾	22½ x 22½	22½ x 45⅞	29⅞ x 29⅞	29⅞ x 37⅞
Rough opening	in.	14⅞ x 46¾	21½ x 27⅞	21½ x 38⅞	21½ x 46¾	21½ x 55⅞	21½ x 71¼	22½ x 22½	22½ x 45⅞	30⅞ x 31	30⅞ x 38⅞
Daylight area (glass)	in.	12 x 42⅞	18⅞ x 24⅞	18⅞ x 35⅞	18⅞ x 42⅞	18⅞ x 51⅞	18⅞ x 67⅞	19⅞ x 20⅞	19⅞ x 42⅞	27¼ x 27⅞	27¼ x 35⅞
Net wt (w/ temp. glass)	lbs.	33	28	37	43	49	63	26	46	41	48



Model FS (continued)

				
	30⅞ x 46¼	30⅞ x 54⅝	44¾ x 27⅞	44¾ x 46¾
	29⅞ x 45⅞	29⅞ x 53¾	43⅞ x 26⅞	43⅞ x 45⅞
	30⅞ x 46¾	30⅞ x 55⅞	44¾ x 27⅞	44¾ x 46¾
	27¼ x 42⅞	27¼ x 51⅞	41⅞ x 24⅞	41⅞ x 42⅞
	56	64	52	78




Model VSE, VS and FS sizes that fit perfectly between roof trusses. (see page 20 for additional information)

Model GPL

Size code			
Outside frame	in.	30⅞ x 55	44¾ x 46⅞
Rough opening	in.	31¼ x 55½	45¼ x 46⅞
Daylight area (glass)	in.	23¾ x 45¼	37⅞ x 36⅞
Ventilation area (opening)	sq. ft.	11.34	11.64
Ventilation area (flap)	sq. in.	30.00	47.81
Net wt (w/ Lam. glass)	lbs.	111	123

Model GDL

Size code		
Outside frame	in.	37⅞ x 99¼
Rough opening	in.	39⅞ x 101
Daylight area (upper section)	in.	30 x 53¼
Daylight area (lower section)	in.	30 x 28¾
Ventilation area (upper section)	sq. ft.	22.5
Ventilation area (flap)	sq. in.	36.7
Net wt (w/ Lam. glass)	lbs.	160

Product sizes

Models VCE and VCM

Size code		2222	2234	2246	3030	3046	3434	4646
Inside curb	in.	22½ x 22½	22½ x 34½	22½ x 46½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Outside curb	in.	25½ x 25½	25½ x 37½	25½ x 49½	33½ x 33½	33½ x 49½	37½ x 37½	49½ x 49½
Max. skylight clearance	in.	26¼ x 26¼	26¼ x 38¼	26¼ x 50¼	34¼ x 34¼	34¼ x 50¼	38¼ x 38¼	50¼ x 50¼
Daylight area (glass)	in.	20.62 x 18.62	20.62 x 30.709	20.62 x 42.72	28.62 x 26.69	28.62 x 42.72	32.62 x 30.709	44.62 x 42.72
Ventilation area	sq. ft.	1.46	3.84	4.73	4.06	5.13	4.65	6.50
Net weight (Lam. glass) lbs.	VCE/VCM	62/54	83/77	93/85	85/80	113/112	99/98	133/144

Model FCM

Size code		1430	1446	2222	2230	2234	2246	2270	3030	3046	3434	4646
Inside curb	in.	14½ x 30½	14½ x 46½	22½ x 22½	22½ x 30½	22½ x 34½	22½ x 46½	22½ x 70½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Outside curb	in.	17½ x 33½	17½ x 49½	25½ x 25½	25½ x 33½	25½ x 37½	25½ x 49½	25½ x 73½	33½ x 33½	33½ x 49½	37½ x 37½	49½ x 49½
Max. skylight clearance	in.	18¼ x 34¼	18¼ x 50¼	26¼ x 26¼	26¼ x 34¼	26¼ x 38¼	26¼ x 50¼	26¼ x 74¼	34¼ x 34¼	34¼ x 50¼	38¼ x 38¼	50¼ x 50¼
Daylight area (glass)	in.	14½ x 30½	14½ x 46½	22½ x 22½	22½ x 30½	22½ x 34½	22½ x 46½	22½ x 70½	30½ x 30½	30½ x 46½	34½ x 34½	46½ x 46½
Net weight (w/ temp. glass) lbs.		35	46	23	42	32	40	65	37	51	52	86

Models QVE and QVM

Size code		150	152	156	302	306	656
Outside frame	in.	23¼ x 23¼	23¼ x 30½	23¼ x 46¼	30¾ x 30¾	30¾ x 46¼	47¼ x 46¼
Rough opening/ Finished framing	in.	22¼ x 22¼	22¼ x 29¾	22¼ x 45½	29¼ x 29¾	29¼ x 45½	46¼ x 45½
Daylight area (glass)	in.	18½ x 16¾	18½ x 24	18½ x 39¾	25¾ x 24	25¾ x 39¾	42½ x 39¾
Ventilation area (opening)	sq. ft.	1.28	2.88	4.27	3.67	4.80	5.70
Net wt (Lam... glass)	QVE/QVM lbs.	55/54	64/63	83/84	72/69	93/85	127/123

Models QFS

Size code		150	152	156	302	306	656
Outside frame	in.	23¼ x 23¼	23¼ x 30½	23¼ x 46¼	30¾ x 30¾	30¾ x 46¼	47¼ x 46¼
Finished framing Rough opening	in.	22¼ x 22¼	22¼ x 29¾	22¼ x 45½	29¼ x 29¾	29¼ x 45½	46¼ x 45½
Daylight area (glass)	in.	19¼ x 20¾	19¼ x 27¾	19¼ x 42½	27¼ x 27¾	27¼ x 42½	43¼ x 42½
Ventilation area (opening) sq. ft.		2.78	3.76	5.94	5.15	8.12	13.10
Net wt (w/ temp. glass)	lbs.	40	37	64	54	78	102

Testing data notes

a) Largest size units tested in accordance with one or more of: AAMA/WDMA 101/I.S.2/NAFS-02, AAMA/WDMA/CSA 101/I.S.2/A440-05, or ICC-ES Acceptance Criteria AC16 and AC17.

b) Performance data are determined for complete units at 20 degree slope, and verified in accordance with NFRC procedures (where applicable) by accredited entities.

VELUX products are listed in the NFRC Certified Products Directory, and carry appropriate labels in accordance with NFRC's certification program. NFRC ID: VEL-N-xxx

c) Most variants have achieved WDMA Hallmark certification under No. 426-H, ICC-ES recognition under Legacy Report NER-216, and/or ATI recognition under report CCRR-0104.

In addition, Florida and TDI have listed most variants in their product evaluation systems, and the FCM has achieved Miami-Dade approval. Additional approvals are pending.

Product sizes

Size code		Model TMR		Model TGR		Model TMF	Model TGF	
		● 010	● 014	● 010	● 014	● 014	● 014	● 021
Outside flashing	in.	27 x 27	29 ³ / ₄ x 30 ⁵ / ₈	25 ¹ / ₂ x 25 ¹ / ₂	29 x 29	29 ³ / ₄ x 30 ⁵ / ₈	29 x 29	37 x 37
Rough opening (ceiling)	in.	10 ¹ / ₂	14 ¹ / ₂	10 ¹ / ₂	14 ¹ / ₂	14 ¹ / ₂	14 ¹ / ₂	22 ¹ / ₂
Rough opening (roof deck)	in.	14 ¹ / ₂ x 16	14 ¹ / ₂ x 20	14 ¹ / ₂ x 14 ¹ / ₂	14 ¹ / ₂ x 18	14 ¹ / ₂ x 20	14 ¹ / ₂ x 18	22 ¹ / ₂ x 26
Daylight area	sq. in.	65.29	137.82	65.29	137.82	137.82	137.82	314.00
Net wt (w/ acrylic)	lbs.	20	29	19	28	26	24	36
Standard tubing kit length	in.	48*	48*	48*	48*	96	96	72
Maximum recommended install length	ft.	20	20	20	20	8	8	12

*Subtract approximately 6" for flashing

Testing data

For more detailed product information and for data updates visit our website at www.veluxusa.com. (User is advised to verify critical values have not changed since publication.)

Glazing option	VSE VS	FS	VCE VCM	FCM	QVE QVM	QFS
Air infiltration, l/s/m2 (cfm/ft2) at 75 Pa (1.57 lbf/ft2) air pressure						
All glazings	0.10 (0.02)	0.71 (0.14)	0.41 (0.08)	0.30 (0.06)	0.36 (0.07)	0.25 (0.05)
Water penetration "No entry" pressure, Pa (lbf/ft2) at 3.4 l/m/min (5 US gal/ft/hr) water flow						
All glazings	466.5 (9.75)	466.5 (9.75)	360 (7.5)	720 (15)	580 (12)	580 (12)
U-factor, (Btu/hr/ft2/°F)						
Laminated (74)	0.50	0.47	0.60	0.50	0.49	0.45
Tempered (75)	0.50*	0.48	0.60**	0.50	0.50***	0.47
Solar heat gain, SHGC, %						
Laminated (74)	0.29	0.33	0.29	0.32	0.29	0.33
Tempered (75)	0.29*	0.33	0.29**	0.32	0.29***	0.33
Visible transmittance, Vt, %						
Laminated (74)	0.48	0.54	0.48	0.53	0.48	0.54
Tempered (75)	0.49*	0.55	0.49**	0.53	0.49***	0.55
Classical UV protection, %						
Laminated (74)	99.9	99.9	99.9	99.9	99.9	99.9
Tempered (75)	87*	87	87**	87	87***	87
Total fading protection, %						
Laminated (74)	83	83	83	83	83	83
Tempered (75)	75*	75	75**	75	75***	75
Downward load, lbf/ft2						
Laminated (74)	65 to 135	65 to 188	50	175	145	165
Tempered (75)	NA	NA	50**	200	NA***	NA
Uplift load, lbf/ft2						
Laminated (74)	50 to 63	60 to 80	70	120	50	50
Tempered (75)	NA	NA	60**	70	NA***	NA

*VS only **VCM only ***QVM only

Glazing option	TGR	TGF	TMR	TMF
Air infiltration, l/s/m2 (cfm/ft2) at 75 Pa (1.57 lbf/ft2) air pressure				
All glazings	<0.05 (<0.01)	<0.05 (<0.01)	<0.05 (<0.01)	<0.05 (<0.01)
Water penetration "No entry" pressure, Pa (lbf/ft2) at 3.4 l/m/min (5 US gal/ft/hr) water flow				
All glazings	720 (15)	720 (15)	720 (15)	720 (15)
U-factor, (Btu/hr/ft2/°F)				
Acrylic	0.42	0.43	0.42	0.43
Polycarbonate	0.42	0.43	0.42	0.43
Solar heat gain, SHGC, %				
Acrylic	0.40	0.35	0.40	0.35
Polycarbonate	0.40	0.35	0.40	0.35
Visible transmittance, Vt, %				
Acrylic	NA	NA	NA	NA
Polycarbonate	NA	NA	NA	NA
Downward load, lbf/ft2				
Acrylic	200	200	220	220
Polycarbonate	210	210	210	210
Uplift load, lbf/ft2				
Acrylic	85	85	140	140
Polycarbonate	90	90	105	105



Skylights

